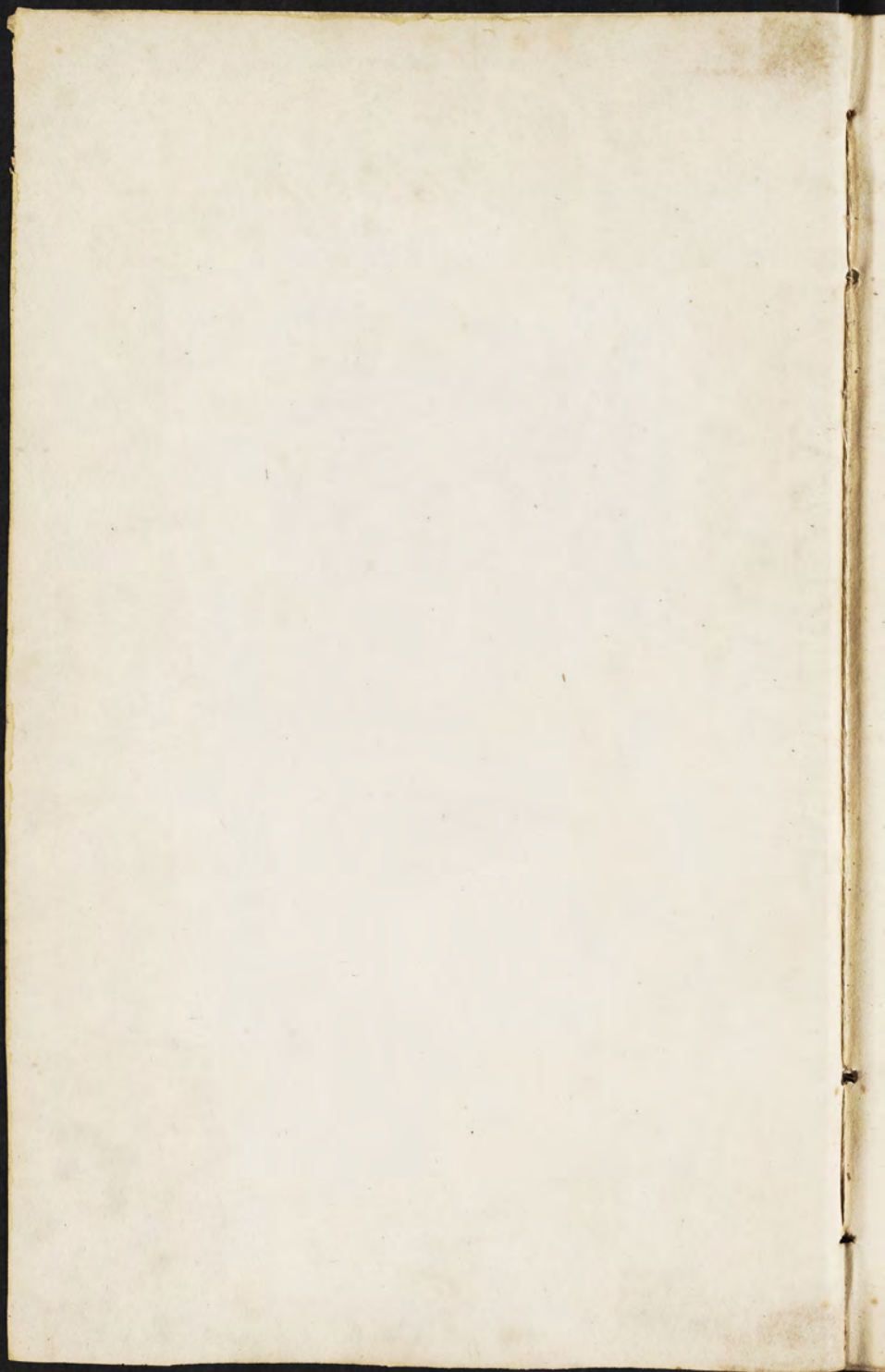




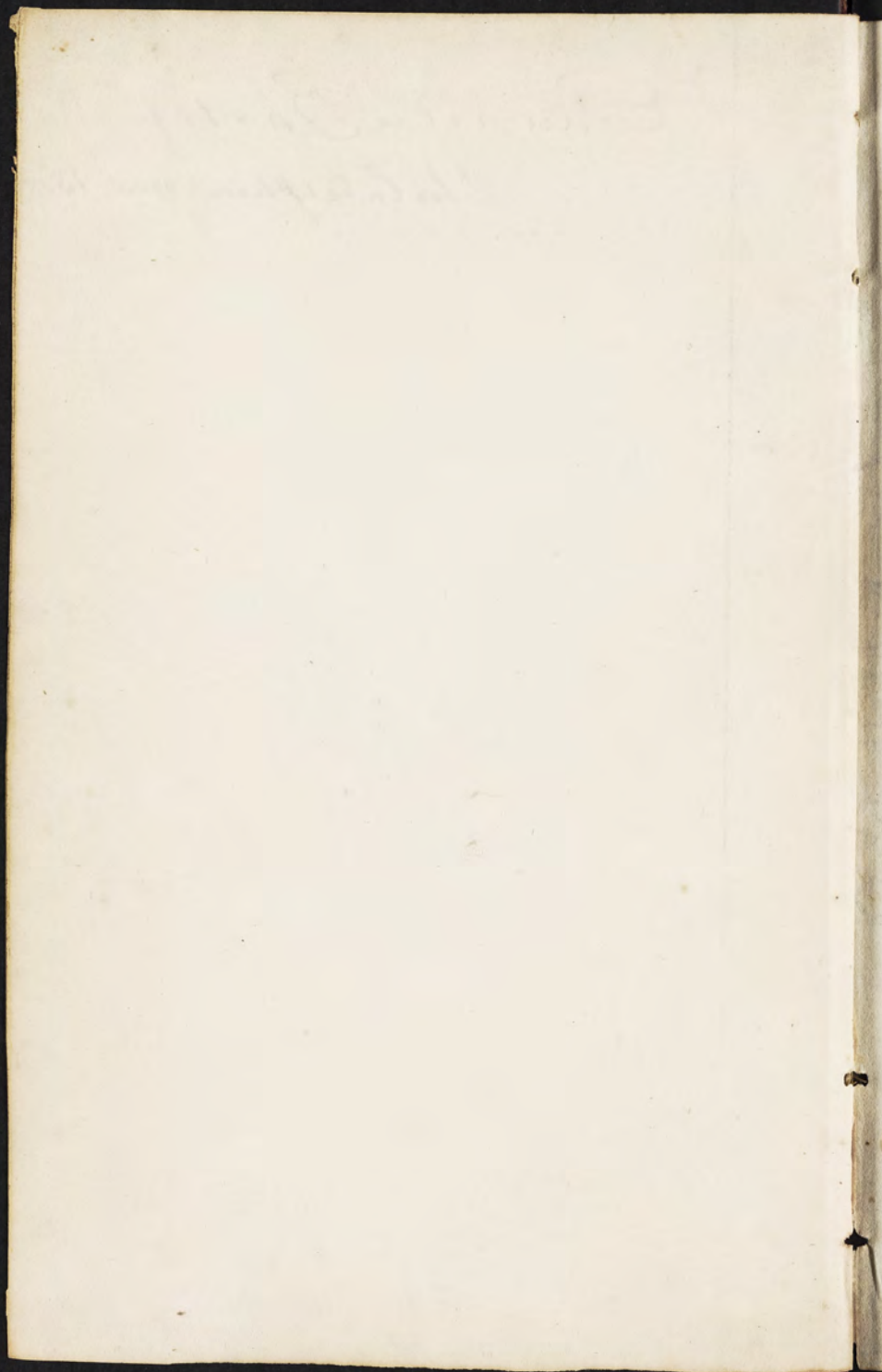
H. Lenox Hodge, M.D.

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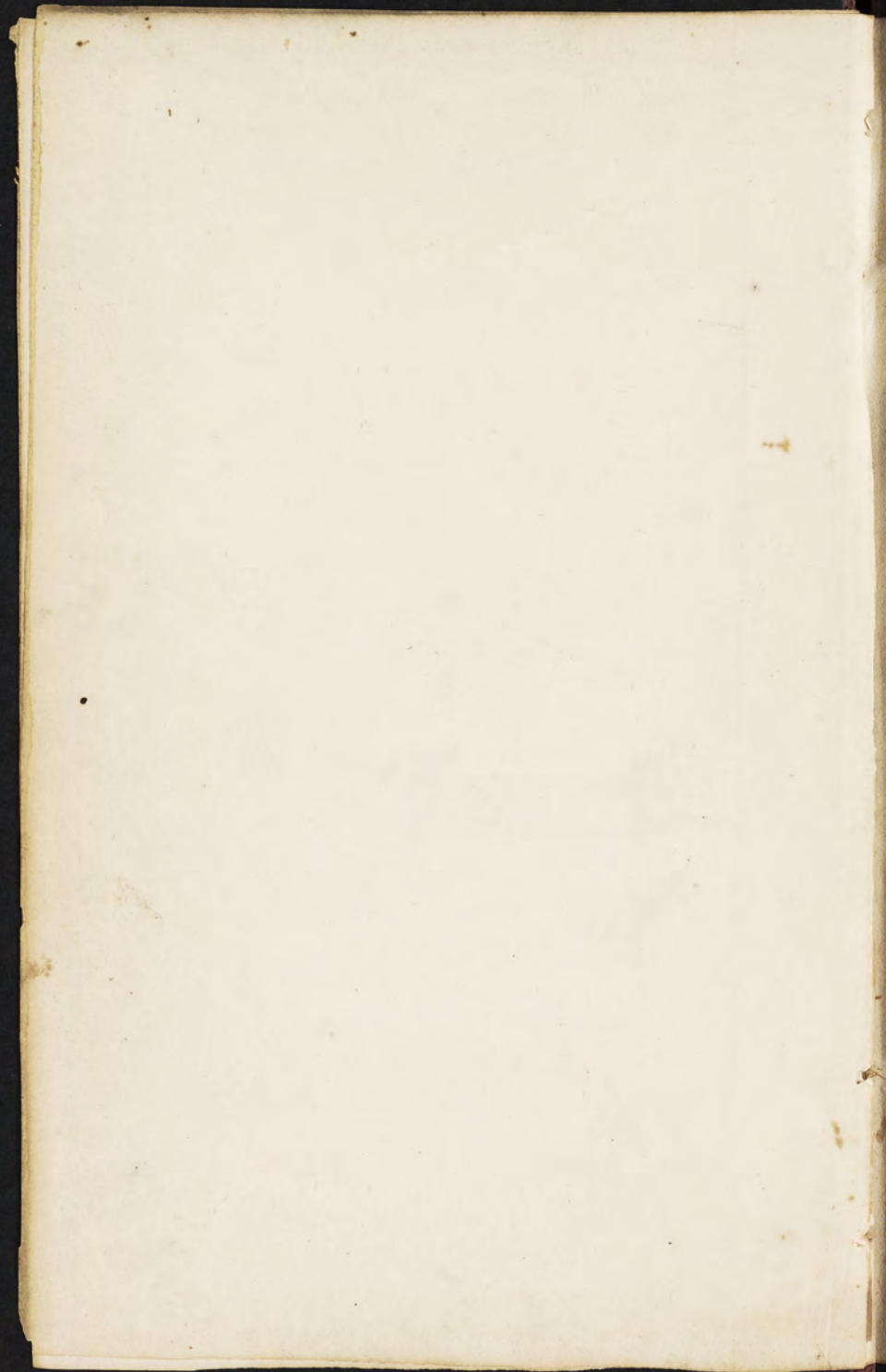


Edward Barton

Philadelphia April. 1815.







Lectures
on
Materia Medica
by
N. Chapman M.D.

Philadelphia Nov. 1814 to March 1815.



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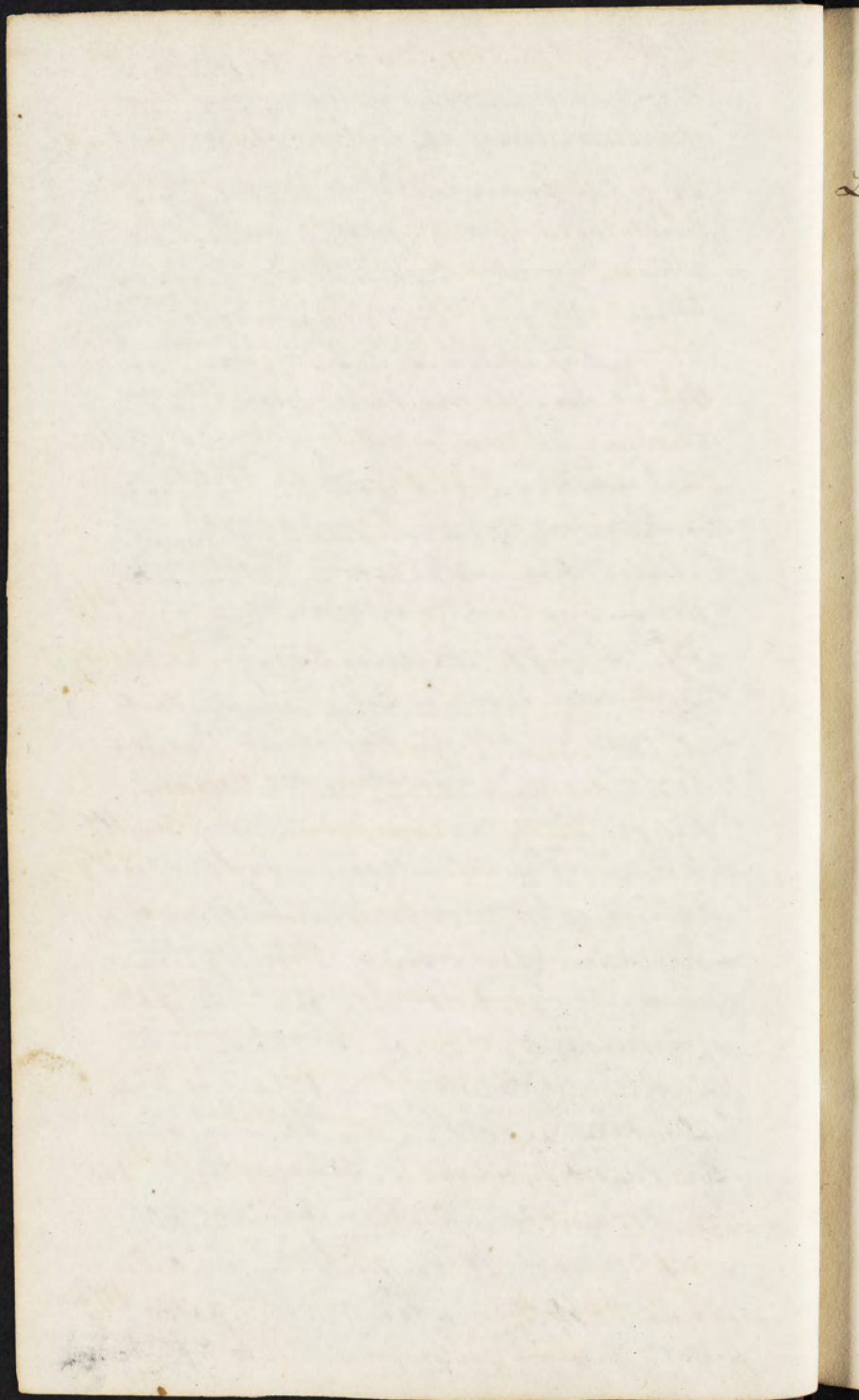
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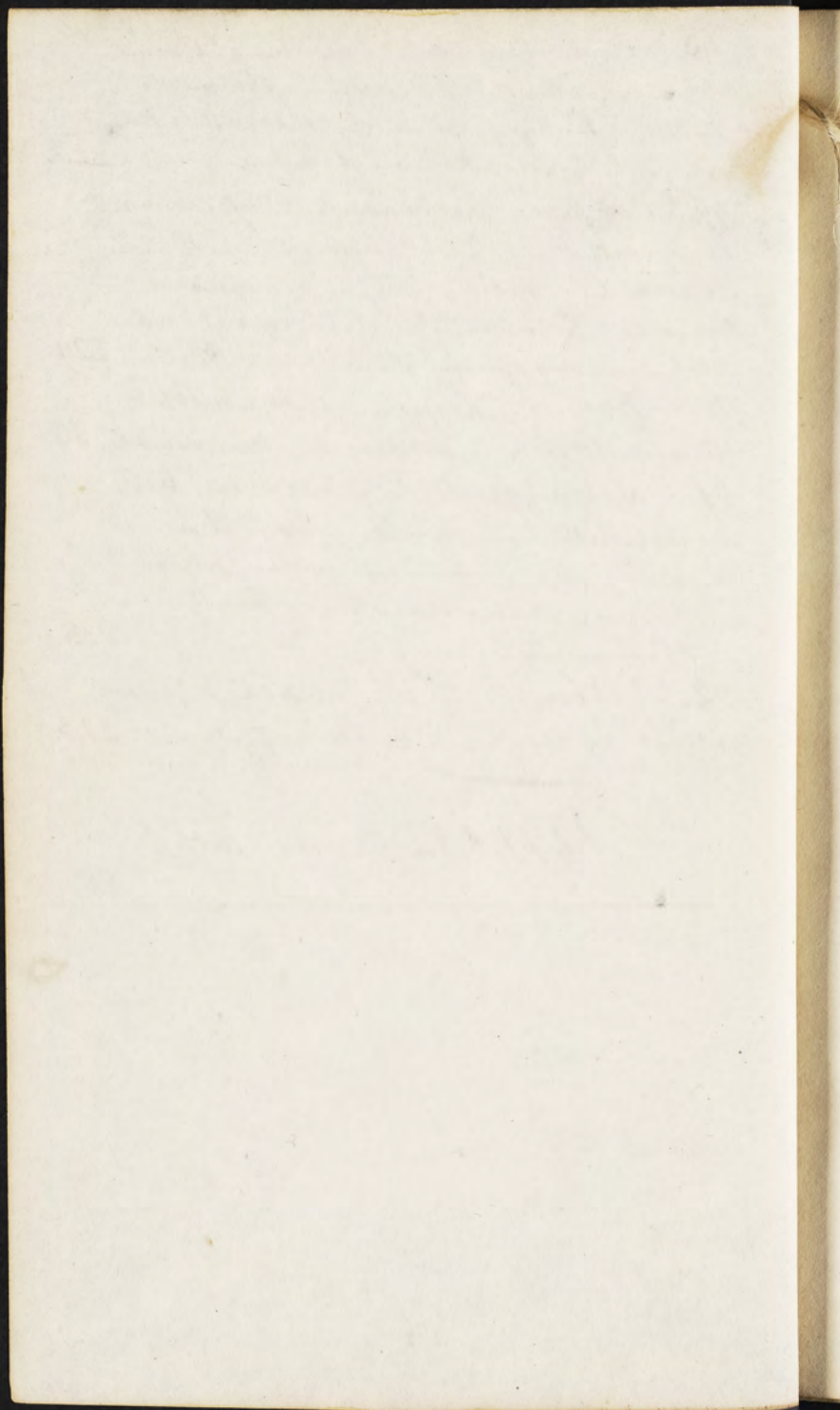
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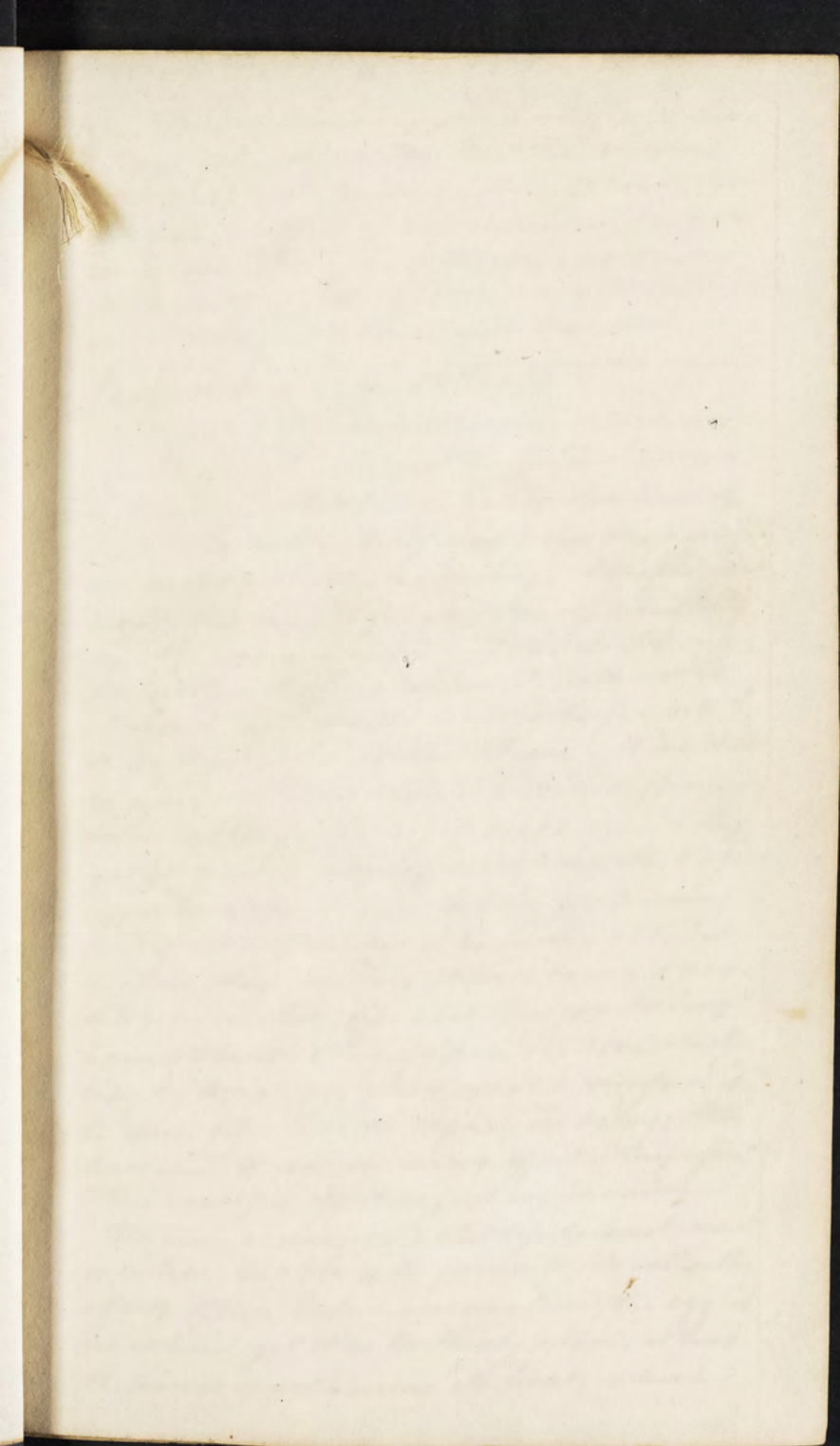
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Finis - March 1st 1815.





On the means of acquiring a knowledge of the objects of Materia medica; viz. Instinct, Sensitibilities of plants; their botanical affinity, Experiments on roots &c, and Experience. See Dr Barton's lecture on the same subject, & Dr Cullen's Chapter on the means &c, Vol 1st of his Mat. Med. . . .

Lecture 2^d - Nov. 14th 1814. -

On the *modus operandi* of medicines.

I begin this subject by laying down as a principle, that the operation of medicines on living bodies is different from their action on mere inanimate beings. This therefore leads me into a physiological discussion on the nature of life. Whatever be my disposition to speculation, I shall not indulge it, as it would lead me too far into the province of another Chair. It is evident to every one, that there is a wide difference between the properties of dead & living bodies; yet it is extremely difficult to say, what life is; whenever we see a body performing living actions, we say it is animated; but suppose these actions should cease, it does not follow, that life also ceases. It has been attempted to explain the nature of life by analogy; thus, what a magnet is to iron, life is to the organized being; others have said it was "the mere effect of inspiration." These analogies afford no just explanation -

We have already said, that life does not consist in action, but life is the principle, & action the effect; thus before incubation, the egg has no action, yet it is certainly alive; it has the power of retaining its heat, which

Mr Hunter considers as one of the Criteria of vitality. Also the germination of seeds exemplifies the subject very well; if dead, they would not, when put into the ground, & not germinate. - As soon as the egg or seed is placed in a proper situation, the vital principle, hitherto dormant, is roused into action & operates on these substances - It is not an uncommon thing for organs to lose their action for a time, & recover it again; ~~that~~ ^{as they be} - nating animals, in suspended animation from hanging or drowning - The daughter of the ruler, (Matthew. 9.) whom Jesus raised, was an instance of suspended animation; Jesus said, "She Sleeth"; & "they laughed him to scorn" - here was no miracle however, & nothing but what maybe done by human exertions in cases of suspended animation; for probably the maid was not dead; but the case of Lazarus was very different, for they said, "he stinketh".

The Physiologists of the present day are divided into two great or leading parties with regard to the nature of life. -

The 1st is that life is a forced state, & not an original one; the works containing this system are in your hands; I therefore need not dwell upon it. Notwithstanding the ingenuity & the eloquence, with which it was supported by a late professor of this university, it is in my opinion replete with fallacy & absurdity - its chief error is in ascribing to external substances a power over the system, instead of the system over external agents - There is also a

a palpable error in making health and sickness merely the effects of different degrees of excitement. —

I now proceed to the consideration of the second leading opinion, viz. that animated objects are possessed of a primordial principle, termed life, by which they are enabled to defend themselves against external agents, & to act on them. —

Every animal (in health) has the power of acting on foreign substances, & assimilating them for its own use. — This property of the vital principle resides also in plants & their seeds. — Whatever is taken into the stomach is then digested, assimilated &c. when the vital organs are unimpaired; but when by disease they are rendered incapable of acting on bodies, or resist their action, all the changes, which take place in these bodies, are purely chemical. — Life is therefore a state, in which the system is enabled to resist external substances, & convert them to its own uses. It is the same with the "Sensorial power," the "vis formativa," the "vis medicatrix naturæ," the "archæa," the "vis vitæ," the "vital principle" &c.

I shall here close my observations on life; I thought it necessary to say something on it, by way of preparation for treating of the Modus operandi of medicine.

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With regard to the action of medicines, there are two leading opinions, varied by different authors; 1.st that they are absorbed into the Circulation, & thus produce their effect; & 2.^d that they act by Sympathy.

The first opinion is founded on the Humoral pathology, but is still maintained by many. Boerhaave supposed diseases to arise from acrimony, viscidities, tenuity or other defects of the blood, or from mortific matter generated within or without the system - hence remedies were sought, which would act on the blood, & the good effects of all medicines were attributed to the changes produced in this fluid. - I believe the changes of the fluids to depend entirely on the solids, & that there is not the slightest proof that medicines are taken into the Circulation.

Chyle which is derived from the most diversified substances, always has the same properties & its analysis always affords the same result, & proves its identity of nature.

Chyle, tho' some say it is a crude fluid, is however a very elaborate mix^{ture} ^{& has the leading properties of blood.} 1.st it retains its fluidity in the living body, but coagulates out of it; 2. it coagulates at the same temperature as blood. 3.^d It is composed of Serum, coagulating lymph, & white globules, tho' much more minute than the red globules of blood.

I have no doubt that all the lymphatics, as well as the lacteals, have the power of assimilation, thus preventing the ingress of noxious matters - if inadequate to this duty, the glands, the sentries of the system,

by inflammation, arrest the offending substances. I know that the odour of the garlic, & the colour of madder are sensible in the excretions of those, who eat them. — but they cannot be detected in the serum of the blood unchanged, tho' they afterwards discover themselves in the excretions. It is perfectly clear to me, that all substances, taken into the stomach, are neutralized and reduced to a homogeneous ~~mass~~ and bland fluid; but in the excretions, they are out of the circulation, & beyond the sphere of the vital principle, and a chemical action takes place, & the substances reappear.

Whether this hypothesis be admitted or not, certain it is however, that no substance can enter the blood unchanged. for milk, bland as it is, cannot be injected into a vein without producing fatal consequences. — Even pus, in the suppurating vein, produces the most dangerous symptoms, and even death. — the most extraordinary case of this kind was related by myself in the Eclectic Repository. Vol 2. — this case was attended with the most singular symptoms. the patient died in convulsions. A similar case is recorded by Mr. Glunter, & there are only two I have met with. — Is it not then absurd to say, that acrid substances are carried unchanged into the circulation? The other opinion (sympathy) is certainly far more rational.

As it regards the operation of medicine on the living body, it is not necessary to have recourse to the Circulation; we have a far more rational theory in Sympathy.

Whenever a foreign substance is applied to the body externally or internally, an action is produced, more or less, in proportion to the diffusibility of the substance, & to the sympathy of the part, to which it is applied, with other parts of the system. Let me illustrate this. - You are all aware that some substances are more diffusible than others; & also that the degrees of sympathy vary between different parts of the body. Thus the stomach has the most extensive sympathy of any organ in the body. - If a foreign substance is applied to the skin, a set of actions is instituted, precisely similar. - As in the Smallpox, if the least particle of variolous matter is insinuated under the skin, it brings on a concatenated series of actions precisely similar, both & produces a crop of similar pustules. - But if the action is communicated to another system, a new set of actions appears, the part primarily affected is the focus, from whence sympathetic actions emanate - this applies to the Causes of diseases as well as to the operation of medicine -

Every portion of the body is capable of

these associated motions; but tho' we have
this general medium of impression,
there are however three surfaces, on which
medicines & perhaps ^{also} the Causes of diseases
particularly act; viz. the Stomach, the
Skin, & the olfactory nerves - Each of these
has an extensive sympathy with the other
parts of the system; but above all, the Stomach
has far the greatest susceptibility, & the
most multiplied and intimate relations.
No organ of the body, not even excepting the
brain, is to be compared with it in this
respect. Destitute of a Stomach, no ani-
mal can live; tho' life may remain
without either of the other organs; thus
fetuses have been found without brain,
or spinal marrow, without lungs, heart,
uterus, liver &c, but never without
a stomach. - Also, life may be pre-
served under very considerable lesions
of the other vital organs; thus patients
often recover after the loss of portions of
the brain; by dissection it is found, that
in Hydrocephalus, sometimes little else
remains, but the membranes, within
the Cranium; the brain being all des-
troyed, & yet life has not yielded, till this
state had arrived. - The sea people liv-
ing with abscesses in the liver &c. cold-
blooded animals may live sometimes
without heart, brain, or lungs; but the
slightest injury done to the stomach
is almost always fatal. - the wound
of a cannon ball, without any other vi-
olence, passing against the stomach,

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has proved fatal; & no blow is so dangerous, as those on the pit of the Stomach.

The Stomach is the receptacle for food, remedies & poisons; Communicating their effects to the other parts of the System. - "Languido ventriculo Omne languescit." On the healthy state of the Stomach depends that of the Chyle, & of course the nourishment of the body; It is called by Aristotle "the animal," by Van Helmont, "the Conscience of the body," & by others "the Archeus" & some have supposed it the seat of the Soul. - Hunger producing a diminished action in the arterial system, a difficulty of respiration, faintness, Pallor, languid secretion &c. - Such is its effect on the mind, that among Courtiers it is a rule never to ask a favour before dinner. But when hunger is satisfied, all these symptoms vanish, ^{the point} Circulation is restored, the pulse rises, the breasts swell, the respiration becomes free, the mind cheerful. Let me also recall to your mind the effects of improper food or excess; Colic - syncope - headache - palsy - tetanus - hemorrhages, & a long train of other diseases - What languor and disagreeable feelings arise from air pent up in this organ, & vanish when it is liberated! What symptoms are not referred to indigestion? & What diseases are not accompanied with a disordered Stomach? - The close sympathy existing between the Stomach and brain is evinced from the effects of the emotions & passions of the mind on the Stomach - Hence the proverbial

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9.

saying, "I sicken at the thought!"
I might enlarge much more on this
subject, but I think I have shown that
the Stomach has a most extensive sym-
-pathy with other parts of the System, &
has thus indicated the chief medium
of sympathetic connexion, by which
impressions may be conveyed to various
parts, without having recourse to the
Circulation. - (this regards only substan-
-ces taken into the Stomach.) -

The Surface of the body is another
part, by which the actions of medicines
is conveyed to the System. This has
long been known, but till lately, no doubt
was entertained of the absorption of these
substances. - Mr. Seguin in France,
& Dr. Rousseau in this City about the same
time first ventured to doubt it. - but
the latter has the only merit, for he
alone has proved (in 1800) by experiments
what Mr. Seguin merely hinted at. -

Dr. Rousseau's experiments candidly
examined prove, or at least render it
probable that Cutaneous absorption
does not exist in the natural & healthy
state. the doctrine of absorption was
almost abandoned, till 3 years ago, Dr.
Murray clearly proved that madder was
absorbed & appeared in the urine, where
it was detected by an alkaline test. (the
vol. alk is the best test for madder) - Dr. Rousseau
has since made 2 or 300 experiments
on all kinds of substances, mild & acid,
medicinal & poisonous, & found that

Charters - vol. 2, p. 30. of manuscript. -

Madder & Rhubarb are the only ones, that
could be detected in the excretions; & nei-
-ther of these could be detected in the Serum
of the blood, or any of the secretions, except
the urine*. he found also that these
were only small surfaces, where these
substances were absorbed, viz. between the
middle of the arm & shoulder, & the middle
of the thigh & hip. - topical bathing or poulti-
-ces to any other parts gave not the slight-
-est proof of absorption. Such is the present
state of this interesting question. Enough
however has been said to show, that cu-
-ticular absorption can very rarely
occur, & when it does, that it is not
a natural action. - The surface being
covered by the impervious Scuticle, absorption
can only take place in two ways: by
friction, by which the matter is insi-
-nuated under the scales (for the cuticle
is truly squamous), or by long continued
bathing or maceration, so as to change
the organization, of the part so much as
to admit of transudation. - At all
events it is not necessary to recur to
absorption; we shall arrive at a much
more correct doctrine, by adopting
sympathy, & another source to be pointed
out immediately - that the skin has a
very extensive sympathy, it would be
waste of time to prove. -

The discovery of pulmonary absorption
would, I confess, invalidate the doctrine;
but Dr Roussseau's experiments go far
in rendering this doubtful, & proving that
it is the impression on the olfactory,

*Rhubarb may be detected in milk, when given
in a digestible state. See Dr Roussseau's Letter to
Catherine - Vol 2 p. 30. p. 31. p. 32.

and not pulmonary absorption, that must
account for the various phenomena, attri-
-buted to the latter— Adverting to the fact,
that when the smell was impeded by coryza,
or other diseases, substances lost their taste,
he instituted the following experiments.
Jan. 10.th 1810. He prepared a bath of 90.
Lavr. strongly impregnated with tobacco;
he remained in it for a full hour, brea-
-thing thro' a tube the air of another apart-
-ment. No disagreeable sensations were
perceived; he returned a few hours after
to empty the bath; but in 2 or 3 minutes
became so sick that he was obliged to
run from the room; one of his children,
who was very fond of the smell of tobacco,
went into the bath, without experiencing
any disagreeable sensations. —

Placing an infusion of tobacco over
some fire, & closing his nostrils, he (Dr)
breathed the fumes arising from it a
whole hour, without inconvenience;
his wife, who had a remarkable dis-
-gust for tobacco, wished to try the expe-
-riment; he consented, & she did the
same without any disagreeable
sensations. — A strong Irishman with
putty and adhesive straps on his nose
breathed over it without any sickness;
tho' the attendants were unable to stay
in the room without vomiting. — These
experiments show, that the sick-
-ness, or narcotic effect of the tobacco

were produced by the ^{its} action on the olfactory ^{12.}
nerves.

D.R. then breathed the fumes of brandy, holding his nose; & no giddiness or other symptom followed; at the same time, a man much addicted to drink, became drunk by breathing the same fumes without the precaution of holding his nose. -

The Carbonic acid gas being known to produce very deleterious effects, D.R. with closed nostrils, breathed over burning Charcoal, but no inconvenience was perceived. - Thus we may account for the little injury the fumes of charcoal do to those who are accustomed to them, their olfactories being blunted by habit. Whereas if it produced its deleterious effects, by ^{incarbon} combining with the oxygen of the atmosphere, the effects would always be injurious.

I have attended many of D. Roussin's experiments, & know him to be very accurate, & his experiments are well worthy of your confidence. - If the olfactory nerves are really the medium by which these effects are produced, it is a highly interesting fact in practice. - A subject well calculated for an inaugural Essay. -

I have now Completed what I had to say on the *modus operandi* of medicine; tho' I have not dwelt on it so much, as the importance of the subject would demand. Leaving therefore the preliminary subjects, I enter directly on the *Materia Medica*. Dr Cullen & most others have divided the objects of the M.M. into aliments & medicines. I shall not adopt this division, as it leads to no practical end; I shall treat hereafter of diet, as a means of preserving health & curing diseases.

Much difficulty has always been allowed to attend the arrangement of med. You will find a history of the various modes of arrangements in Barton's edition of Cullen's Mat. Med. - I shall only observe that every attempt to arrange them according to Chemical analysis, botanical affinity, or sensible qualities has proved unsuccessful. - They all unite plants of different properties, & separate those of similar ones. -

As the objects of the Mat. Med. are studied only for their medicinal power, I shall arrange them according to their effects on the body. Even this mode is objectionable, on account of the deficiency of our knowledge of the operation of medicines.

Dr Cullen divides them into such as act on the Solids, & those which act on the fluids -

The 1st are subdivided into those acting on the simple solids, as the astringents &c,

and those acting on the vital solids, as Stimulants, 14.
antispasmodics &c.

Of those acting on the fluids some (according to him) change them, & some evacuate them of the 1st are demulcents, which correct general acrimony & antacids, antalkalines, antispasmodics, &c. which correct local acrimony. — Of the 2^d are emetics, expectorants, diaphoretics, emetics &c. &c. Doct. Cullen has thus abandoned his own theory according to which fluids are never primarily diseased. — My most deliberate conviction is that medicines act only by sympathy, and that the fluids are only acted upon by impressions communicated to them thro' the medium of the solids. — Yet I wish it to be understood, that I am not among those, who suppose that all medicines are the same, except in degree, & strength — for I hold an opinion directly opposed to this, that no two agents produce the same action.

[1814. All medicines I hold to be Stimuli, tho' some may not be sufficiently strong to keep the system at the point of healthy excitement &c.

1. Some are more diffusible in their operation, or general Stimuli — as Vol. alk. — Spirit Wine &c. These are transitory in their effect.
2. Others are more confined, & more permanent in their effect. These are the local Stim.

The general Stimuli are 1st Excitants — 2^d Tonics. The Excitants include Antispasmodics & Narcotics.

The local are Emetics — Cathartics — Diuretics — Diaphoretics — Lithontriptics — Sialagogues — Emmenagogues — Anthelmintics — Erispartics.]

(1813) However various diseases may be, they may be divided into those which are attended with increase & those with decrease of action.

And accordingly medicines are divided into those which increase ^{stimulate} & those which diminish ^{sedate} action. I shall subdivide these into subordinate classes. Under Sedatives come Emetics, Cath. diarr. diaph. Lithant. Sialag. Emmenagogues. antihistmint. Epispast. and under Stimulants are Narcotics, Antispasmodics & Tonics. — then come the miscellaneou; Diet; temperature &c. —

We must begin by understanding terms; All substances are no doubt Stimuli, but some are inferior to the natural degree of excitement and of course much inferior to the diseased excitement. these are denominated Sedatives. for the purpose of practice, the distinction is therefore sufficiently correct. Sedatives then are only inferior degree of stimulants — There is another distinction which is not to be overlooked. Medicines differ much in diffusibility, and permanency of effect. Some act universally over the whole system — others act only locally, & produce a debility of action in every other part of the system as emetics &c. — we begin by these. —

Emetics are so important that it will be excusable to treat of them at some length. They are among the earliest medicines used; an instinctive impulse seems to have taught their use to Savages & to brutes. — How absurd therefore is the opinion of those, who object to the use of them, as unnatural.

Of the mechanism of vomiting little need be said. the action of the stomach is inverted, the diaphragm & abdominal muscles act by association, & the upper parts of the intestines also have their peristaltic motion inverted — How is this inversion produced? They certainly stimulate, but why to this inverted action, we cannot say.

Doct. Darwin says they diminish the natural ^{16.}
action of the stomach, till it ceases; when a
new & contrary action takes place. - This is only
saying an inversion takes place, but not
how or why. - it is true it is sometimes ex-
- cited by extreme languor or fainting; & what-
- ever relaxes the system, renders the stomach
more liable to this inverted action; but also
many very powerful stimulants provoke it.

Some suppose the stomach passes, but
the experiments of M^r Hayden of London are so
conclusive as to leave no further doubt; they
prove incontrovertibly that the stomach does act.

There is a peculiarity in emetics - all
other medicines lose their power by habit, but
emetics are the very reverse; this is so true,
that after frequent emetics, the sight or even
the mentioning of an emetic will sometimes
by association produce the inverted motion.
If an explanation of this anomaly were
demanded, I would answer, that it was
owing to some idiosyncrasy of the stomach,
rather than to any property of the emetic.

We have now to trace their effects;
They evacuate the contents of the stomach,
which is an object of no small importance;
but their advantages do not rest here; the
effect is extended to the duodenum, &
while the diaphragm and abdominal
muscles compress the gall bladder, &
drive the bile into the duodenum, this
viscus throws it into the stomach, which
evacuates it. - Thus emetics increase
the secretion of bile, & probably of the pancre-
-atic juice. Nor is this all; concretions
are forced from the ducts into the in-
- testines, and jaundice is thus cured. -

- Dr Barton thinks that a small quantity of bile always exists
in the stomach, for the purpose of healthy digestion.

See Watson B's Lect (on Emul.)

Some however maintain, that the bile effect¹¹ was in the stomach before the emetic was administered; but bile is not generally thrown up till some time, and after repeated retchings and vomiting -

We have more than once expatiated on the extensive sympathy existing between the stomach and other parts, & especially with the surface - Thus one of the first effects of emetics is a great relaxation ^{even to syncope} of the extreme vessels sympathy & perspiration comes on. This effect is by some denied, because it is not the uniform effect of all emetics; but there is no force in this argument; it only shows that some emetics have not so much affinity with the vessels of the skin as others.

The power of increasing absorption is by some denied the emetics - Some contend that it is by a direct stimulus on these vessels; but I think it should be explained by the very reverse. The absorbent action is always strongest, when the force of the system is particularly arterial action is much diminished. Thus the emetics do not increase absorption by stimulating the ^{absorbent} vessels, but by relaxing the rest of the system. All however allow the fact, that they do excite the absorbents to take up pus, & often the water in Dropsies.

They act also on the Kidneys; whether this is to be attributed to a specific power of emetics, or to the quantity of fluids drunk, or to mechanical pressure, is not determined - But as they excite the

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18.
absorbents, it appears to me, that there is no difficulty in explaining their action on the kidneys; for if water is absorbed in Dropsy, it must be discharged.

They act also as expectorants - As soon as nausea comes on, a copious flow of Saliva and a mucous discharge from the bronchia appears, ~~and this~~ increases, when vomiting comes on - this is evinced in Coughs, in Croup &c. where emetics are invaluable remedies.

The sympathy of the head with the Stomach is known to all, thus in many of the diseases of the head, Emetics are the best remedy. their impropriety however must be manifest, when any fullness of the vessels of the head exists, as they increase the impetus of the blood to the head, & ^{impede} prevent its return by the veins.

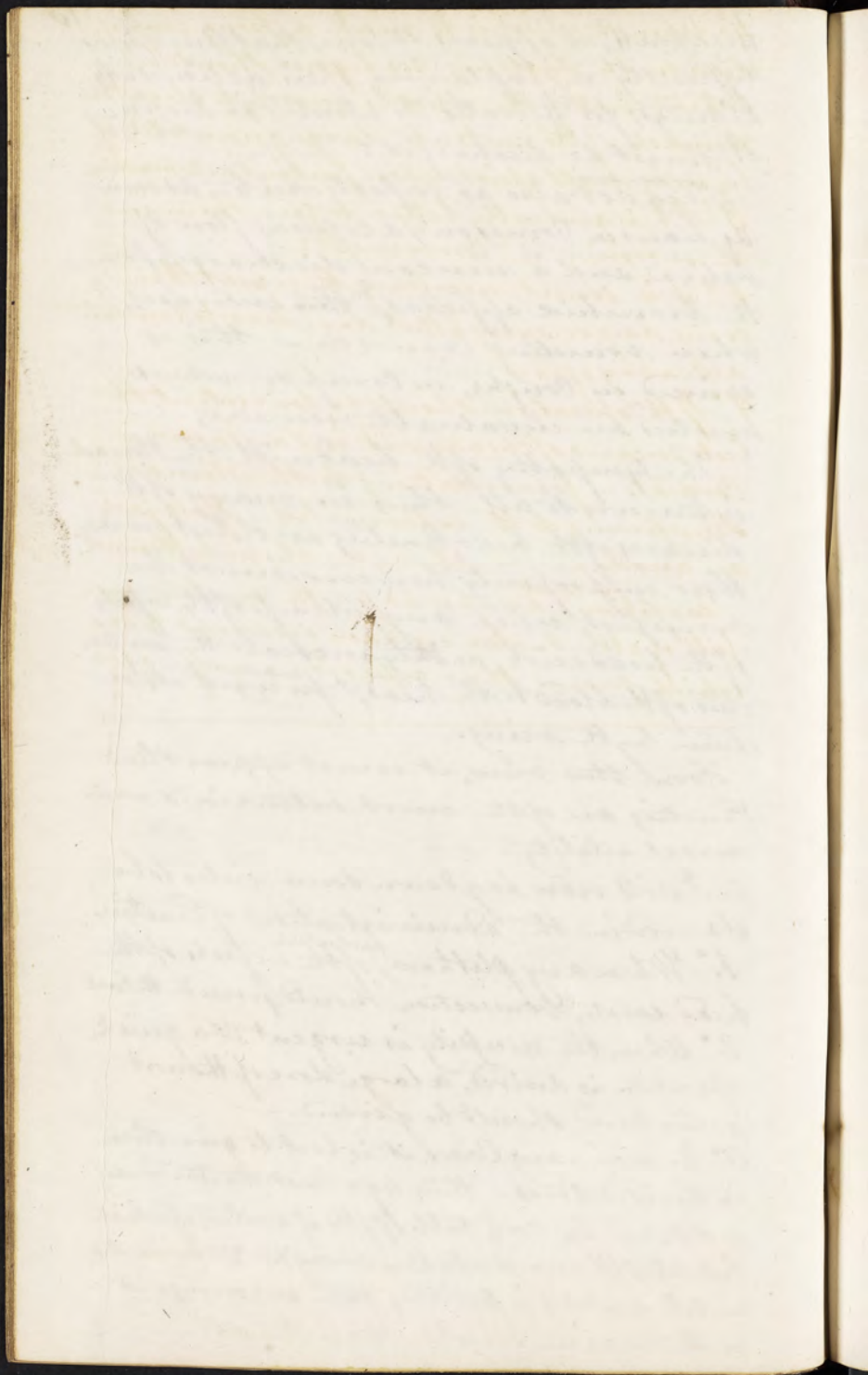
From this view, it must appear that Emetics are of the most extensive & universal utility.

I will now lay down some rules to be observed in the administration of Emetics.

1.^o When any plethoria ^{partially} of the vessels of the head exists, Venesection should precede the Emst.

2.^o When the necessity is urgent, & a quick operation is desired, a large dose of the most active kind should be given.

3.^o In ordinary Cases, it is best to give them in divided doses - thus 4grs Emst. Tartar may be dissolved in 5 or 6 table spoons of water, of which one table spoon may be taken every X or XV minutes, untill puking is excited; then encourage it with warm drinks - Cham. tea &c. &c.



4.^o When the object is to make a strong impres-
sion on the system, no liquid should be
taken; but if the object is merely to clear the
stomach of its contents, large quantities of
liquids will assist, when purging has commenced.

5.^o It is generally better to give them in
the morning, if convenient.

6.^o it is somet. necessary to repeat them
every day, or every other day, as to imitate
a sea voyage.

7.^o If the operation should be too violent, the
best means of checking it is Laudanum &
Cordials - fomentations to the stomach -
Sinapisms to the extremities - If all fail,
an anodyne injection, & a blister to stomach.
Sinapisms ^{to feet} are perhaps the most power-
-ful of all - Instances have occurred to me,
which proved their extraordinary efficacy.

(Half an hour will in most persons be too short a time before the paroxysm - An hour or an hour & half will often be necessary, in order that the vomiting should cease before the time of cold stage. - If tartemet, much shorter time necessary.
D. Physick.)

We are now to apply emetics to the cure of diseases; In Fevers of every kind. Fevers generally commence with nausea &c, which indicate the disordered state of the stomach; and here emetics are of the first importance, and the use of them is obviously suggested by Nature.

The emetics clear the stomach of its contents, and prepare it for the reception of other medicines. - They are not however always necessary, for the stomach may sometimes be quieted by a saline draught, and a gentle cathartic. - When emetics are to be used, we must not forget, that if plethoras exist, ~~we~~ must precede them; by the neglect of this, many lives have been sacrificed; I have seen one case of Apoplexy & one of hæmoptysis brought on in this way.

Emetics produce a profuse perspiration, which alone is often sufficient to subdue the febrile action. - They seem particularly adapted to intermittents - they prepare the stomach for the reception of the bark, tho' some deny this. - I cannot now stop to examine the question, but merely observe that it is my opinion, that they are always useful & in some cases indispensable. - I have repeatedly broken those trites of associated notions, on which the paroxysm of an intermittent seems to depend, by exhibiting a dose of Opoeac half an hour before the expected paroxysm.

my own rule is never to administer tonics, 21.
without previously emptying the stomach &
vice.

Puerperile Fever is so obstinate and so often fatal, that every thing respecting its cure, is worthy of attention. We hardly know the seat of the Complaint - my own impression is, that it is in the uterus, & by a sympathetic inflammation of the peritoneum - this I infer from dissection, & from its obstinacy; for inflammations of peritoneum are seldom cured & are the most obstinate of all inflammations. But I reserve my opinions on this subject for another opportunity.

Emetics were long ago recommended in Puerperile Fever, but their use subsided, till lately an English writer has again introduced them, & says they may be exclusively trusted; but this is the language of Enthusiasm. I have used them to relieve the most distressing symptoms - the stomach is loaded with something like black vomit, which produces the greatest distress, & if left in the stomach, soon reduces the patient to a Typhoid state. - To evacuate this, Emetics are necessary, & this is their only use in Puerp. Fever, tho' nauseating doses may be employed in this, as in other Fevers. (184) I was called some time since to a woman in the 19th day of a puerperal. with very improving symptoms; I urged an emetic, which threw up an immense quantity of dark coloured matter; the symptoms immediately abated, and she became Convalescent.

Emetics are said to be useful in Dysentery and Diarrhea; these diseases were for

a long time considered as the same, but are now known to be perfectly distinct - (See Sir John Pringle)
In Dysentery in the earliest stages, when the stomach is loaded with bilious matter, attended with nausea &c, they are certainly indicated but I have little faith in them, & should restrict them to those circumstances. - Richter of Göttingen says it is a Rheumatic Catarrhal affection of the bowels, and the bilious matter proceeds from an increased secretion of bile, being merely accessory & accidental & by no means having any influence on the disease. As extraordinary as this ^{theory} ~~reasoning~~ may appear, it is rendered plausible by his cases & reasoning. - From this supposition, he gives nauseating doses of Opium & Antimony, to excite perspiration; an emetic dose at first, if the stomach require it. - With some modifications I have followed this practice, and have reason to be satisfied with it.

Diarrhoea depends on such a variety of causes that it is difficult to say when emetics are required but whenever it is accompanied with a loaded stomach, emetics are indicated - When the disease is obstinate and protracted, emetics may diminish the peristaltic motion, besides producing diaphoresis. -

When Dysentery or Diarrhoea assumes the ~~acute~~ ^{intermittent} form, the treatment must be commenced with an emetic. -

In Dyspepsia, Hysteria & Hypochondriasis, emetics are very useful; the reason is obvious from what has already been said. Hence they are used in indigestions, headaches, low spirits, heartburn &c. as to the peculiar properties of Spices, hereafter -

Emetics are undoubtedly of great utility in Dropsies, but as a general rule, nausea is to be preferred to full vomiting. Tho' the effect is not so great at first, it is more lasting and uniform.

When Dropsy proceeds from obstruction in the biliary system, the emetic operation is useful by inducing relaxation; also in jaundice, obstruction of the ureters &c.

I strongly advise them in intermittent dropsies. The use of emetics however is chiefly limited to Ascites and Anasarca; they are injurious in Hydrocephalus, & I suspect them in Hydrothorax. - - Both cases have lately been related of Hydrocele, cured by Digitalis & Squill in nauseating doses & one in this City by emetic tartar. these are worthy of notice. -

Richter says Emetics are peculiarly beneficial in those Case of diabetes, contracted in Countries, where intempts prevail. I never saw them used in such cases, but those of you, who live in those parts, may be able to give some information on the subject. I have no doubt of their utility, and our Cases of diabetes are often cured by Dover's powder. -

In Hernia humoralis; Mr Hunter first observed this disease to yield to Seasickness; no doubt they are useful, but as there are other remedies, equally powerful & much less disagreeable, I have never used them.

Mr Hunter also speaks of them in Buboes; I think they might be serviceable in those of an inactive or indolent kind. -

~ [Dr Phyzick says, this is no proof, for catarrh often comes on as suddenly as croup & is certainly an inflammation. but Dr P. has seen one or two cases decidedly spasmodic, & Dr Rush shortly before his death saw a similar one; in these the patient suffered under all the symptoms of a violent croup for 2 or 3 minutes, & then they subsided entirely, & 5 minutes after returned with equal violence. — but generally croup is an inflammation of the =

In most diseases of the Chest, emetics are highly recommended, particularly in the acute ones. - In Pneumonia notha, they are of the greatest value. In some forms of Asthma, when they are frequently repeated, they are found eminently useful. - They are not so much recommended in Phthisis, as emetics, but as nauseatics, they check the fever, & render expectoration and respiration more free; but unfortunately "hæret lateri lethalis arundis".

In Pertussis, they are the only medicines I have ever used in the 1st stage with advantage - If the symptoms are violent, they should be repeated daily; at least in Children; for older persons cannot bear the repetition so well - I prefer antimonials in this disease, but many prefer white vitriol - Dr. Keim, the most experienced physician in this City, is of the same opinion with regard to the utility of emetics, but gives a decided preference to the wh. vitriol; because, he says, it is both emetic and antispasmodic. - After the 1st Stages, a watery solution of Asafetida is very useful - Some use the wh. vit. even in this stage, more however as a tonic, than as emetic. -

In Cynanche Trachealis emetics are indispensable; in my hands have been equally successful in both species. Authors distinguish the Spasmodic & the Inflammatory Croup - Some deny the existence of the former, tho' I think it far the more usual form. - A spasmodic contraction of the trachea, sometimes completely formed in half an hour after the first notice of disease.

= of the membrane lining the trachea & larynx. This inflamⁿ if not reached by vigorous antiphlogistic measures, ^{generally} terminates by an effusion of coagulating lymph, which forms an adventitious membrane. If this be thrown up, the symptoms generally subside, but somet. the effort to do this, will cost the patient his life, by producing instant suffocation - In one case which terminated in this way, D.P. found the membrane in a state of intussusception, thus preventing respiration. - Hence any attempt to extract the membrane would be at the hazard of immediate suffocation.

But in some cases, the secretion of this membrane does not relieve the inflamed vessels, but for a time; the inflamⁿ spreads to the adjoining parts, & even after the membrane has been thrown up by plying, the sympt. recur with equal violence. The inflamⁿ is no longer confined to the lining membrane, but the adjoining parts become thickened, and at last obstruct the passage of air. D.P. dissected one case of this kind, in which the cavity was obliterated by the time: factation of the superior part of the larynx* - Aware of the existence of such cases, he had advised forcing the passage by a firm bougie, & he thinks that if this had been done, or tracheotomy had been performed, the patient's life might have been saved. - But while the membrane exists, the operation would be doubtful in its effect, for if the membrane extends to the branches of the trachea, as it frequently does, it could not be successful. -

* Dr. Rush, who attended this case, says he has seen several of the kind, & that they are uniformly fatal. -]
(Dr. Prusick's examination)

25.
this could not be inflammatory, for inflammation comes on more gradually. - In these Cases I have found emetics imperiously called for, and large doses are required; for in this disease, the stomach seems to lose its susceptibility to impression. - I greatly prefer the Emetic tartar to all others, however young the patient; it is the most powerful; but if it does not operate, bleed profusely; this never fails to restore the susceptibility of the stomach - last week I was called to a child $\frac{1}{2}$ hour after the attack; in the course of an hour, I gave it \times grains of Emetic tartar without effect; I then put it into a warm bath, & bled it till it fainted - by these means the child was made to vomit, & soon recovered. By this practice, I have never lost a single Case of Croup, tho' I have been called sometimes to cases almost desperate. -

In Cynanche Maligna, Emetics are also useful. A Combination of Calomel & Turpelt Mineral has been much recommended; but I prefer the Antimonial to all others.

They are thought beneficial in disease of the head, even in apoplexy; this disease is seated either in the head or in the stomach; this latter species is commonly brought on by a surfeit, or some congestion in the stomach; when this is the case, emetics are most certainly indicated. The question has been agitated whether the stomach is not always the seat of this disease, & by dissection, it appears that in a great proportion of Cases of Apoplexy, the brain has not the smallest appearance of inflammation - but the stomach is found very much inflamed, particularly near the pylorus.

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26.

Emetics have also been spoken of in Paralysis; I can conceive that they may be useful, from the sympathy existing between the Stomach & Brain. In Epilepsy they are also useful; Dr. Sotterhill thought that this disease also was seated in the Stomach; if so, Emetics cannot fail to be important remedies. - Given near the time of the expected paroxysm, if they do not suspend it, they at least shorten it, & abate its violence.

All the diseases of the Clasp Neuroses seem to yield to these & to purgatives - Epilepsy, Chorea Sⁱⁿ Viti, Hypochond. Hysteria - Apoplexy &c. &c. -

In hydrocephalus internus, I would not place much Confidence in them; In the inflamed stage, they would be of no service, & when water is collected, they might do injury -

Emetics are a favourite remedy in Mania, but I think nauseating doses are better, as they depress the arterial action, & muscular strength, without determining blood to the head. - There are sometimes better than bleeding - Mania is one of those diseases, in which the Stomach loses its susceptibility to impressions, & of course large doses are requisite. -

In Ophthalmia Emetics are recommended, particularly in the protracted and obstinate Cases; Richter has embraced the opinion, that all Complaints of the eye have originate in the Stomach. I am a convert to his opinion, as it regards some of the diseases of the eye - Gutta Serena, I think, depends almost always on the Stomach.

See also "Thompson's Lectures on Inflammation" Edink.
(cases quoted from Dr. W. Rytt's works, p. 497.) Page 97.

Mr. Lawson of London 1st recommended this prac. &c.
-tic, & by his success, acquired the greatest celebrity
as an oculist - He gave emetics & kept up the
impression by nauseating doses, & Cicuta.

Mr. xxx of this City was subject to spasms
of the Stomach; One morning he arose
blind with one eye, & the other saw all objects
double and inverted - he remained sometime
in this situation, the affection soon after
-uating with the dis. of the Stomach - V.S.
& other means were tried without effect.
An Emetic followed by nauseating doses cured
him perfectly. - Dr. Physick & Dr. Caldwell
saw a man with violent Colic, & the next
morning found him totally blind; a drastic
purgé was given, & vision was restored. -

Emetics are used in the Smallpox, when
the eruption is retarded, however they are
more necessary in the B. Stage, when Squills
are particularly useful. Also in the Cough
after measles. -

Emetics are often used in acute Rheu-
-matism, & if useful, it must be by the
diaphoresis they induce - I should always
prescribe V.S. - About Inflamⁿ Gout.
Dr. Barton says they are more serviceable in
irregular gout. -

In the Sick headache, to which
delicate ladies are subject, they do more
good than any other medicine. Spina
is given as emetic, & after its operation,
wine whey &c. -

In bites of venomous serpents -
In Luxations, Strongⁿ Flemingⁿ &c, in fact
in all cases where great relaxation is desired,
Emetics are useful. For Dislocations, See
Mr. Wilmer's Case - Eclect. Repert. Vol. 1st
We shall say more of this, when on Emet. tartar.

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20.
Emetics have been employed in active haemorrhages; some say they are doubtful, & some injurious. Dr Robertson of Edinburgh used them in Haemoptysis, but his practice has been abandoned. However I have seen it terminate in more than one instance by spontaneous purging, & the worst case of haemoptysis I ever saw, was cured by Digitalis, which operated as emetic; & the disease never returned. — I think them however very hazardous, when there is a copious flow of blood, & to be resorted to only in a case of desperation; but where there is only a slight raising of blood mixed with mucus, emetics are safe & often advantageous.

They remove the blood from the lungs, relax the constriction of the vessels of the surface, & facilitate respiration & expectoration. Hence the use of the nausea marina. Even when emetics are not permitted, nauseating doses are given with the greatest advantage.

Many years have elapsed since they were first used in Menorrhagia. I cannot say any thing of them from my own experience — I hold Menorrhagia to be nothing else than Uterine haemorrhage, and not an increased secretion of the Catamenia. Emetics may be useful in the robust by relaxation, but even in these cases (the most favourable for emetics) I prefer D.S. & then nauseating doses. This last practice was introduced by a Swede, and was used with success by the celebrated Berghius, who gave gr.ss Ipecac. q.s. h. & avoided every thing that might induce vomiting. A Professor in Upsal goes so far as to say

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that this mode never failed in a single case in his hands. Without going to this extent, I must say, I have great Confidence in it in Ut. hemorrhagy, but the cases in which I have used it were those incident to pregnancy, but as I suppose Menorrhagia to be the same, the practice will apply also to it. —

In mictus Cruentus, emetics are said to be advantageous, but I think this wants Confirmation; I know no authors of great worth respectability, who recommended them; if useful, it must be by the debility they induce. —

We now proceed to the Consideration of individual emetics - They are variously arranged, but I follow none of the arrangements of authors - I shall first treat of the vegetable and then of the mineral Emetics.

Of the vegetable, no article has stronger claims on our attention than the Cephaelis Emetica, (the Colycothea speciosa -) a plant of the class of Pentandria & order monogynia - native of South America - There are several kinds of Specac, but the best is the ash coloured & grows in Peru - it comes to us in small wrinkled pieces, externally brown, internally rather whiter - it has a faint smell, and slightly bitter taste. it ^{consists} of a gum & a resin - the resin is proved to contain the valuable qualities of the plant, but the property resides also in the gum. - The active matter of Specac is extracted by alcohol, & by vinegar - if made into a decoction, the strength is lost, for the active parts are volatile & dissipated by boiling. - It also loses its power by exposure in powder to the light and air. - The root consists of a dark grey cortex & a medullary heart - the liguous part has been shown to be as active as the Cortex - Specac is the mildest of all certain Emetics. it evacuates the contents of the stomach without great action on the system - Much difference exists with regard to the dose - 1 grain will sicken some, while the Brazilians are said to take $\frac{3}{4}$ but probably not of the strongest kind. -

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31.
The ipecac comes up by the 1st or 2^d vomiting,
and the stomach is left tranquil, unless
warm water or some other tepid liquor is
given. — Dr Cullen says ʒj is the medium
dose for an adult; this appears to me
to be small, & to produce repeated vomit-
ing, ʒi is the dose for an adult, & this
must be assisted by warm water &c. —

When more activity is required, it is
usual to combine ʒj. East. emet. with
it, & this forms indisputably our best
emetic. —

I have already under the head of Emet.
~~spoken~~ hinted at the use of Ipecac in
hemorrhages of every kind. it is decidedly
the best of all emetics in these cases, & in
nauseating doses is very efficacious. —
It is however particularly in uterine
hemorrhage that it is remarkable, & in
this it is perhaps superior even to Sacch. Sat.
but nauseating doses only should be
exhibited, for if vomiting is produced, I
fear, it will be injurious, as such a shock
is followed by great reaction. — But do not
understand me that this is always
the case, for I have known it checked by
spontaneous puking; there is however
a great difference between spontaneous
and artificial puking. —

The effect of nauseating doses of Ipecac
is truly astonishing & like a charm
by what mode do they act? It cannot
be by their astringency, for more powerful
astringents do not produce the effect.

nor can it be attributed to its antispasmodic power
for admitting it to be antisp. of which there
is no proof, other more antisp. med. do not
effect it. - I believe they act by producing a
relaxation, and thus diminishing arterial
action. -

My mode of giving it in Ut. haemorrhage is
℞iij gr. ss. with ℞℥ssac gr. ij. q. s. vel t. b. -

Distinct from its emetic operation; it is said
to have peculiar power in intus. Dr Cullen says,
that a respectable friend has broken the course of
an intus. by it; but I have done the same
with other emetics, & even greatly prefer the
Emetic tartar for this purpose. -

In Pulm. Consumption also, it is inferior
to Emet. Tartar. -

In complaints of the alimentary canal,
it is indisputably better than all other emetics.
In Dysentery, after evacuating the contents
of the stomach, I use it as in Ut. haemorrhage,
in combination with opium. It is said to

be peculiarly adapted to those dysenteries
where there is a great discharge of blood; this
maybe correct, but I have found it useful
in every form, especially if there is great pain
and tenesmus. It has been used by
the practitioners of every age & country, &
all give their testimony in its favour.

Its modus operandi in Dysentery is unknown.

It cannot be by its purgative effect, as
Cullen supposes, for other purgatives are not
equally efficacious, & moreover it does most
good, when it does not purge. Mosley

says it acts by producing relaxation
and Diaphoresis - this I think more
plausible than any other explanation -

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In dyspepsia of long standing, Ipecac is highly extolled; I have given it in small doses, not even sufficient to produce nausea, with success, about gr ss. t. vel quater die. - in this way it acts as an alterative.

In Asthma it has a decided advantage over every other emetic; the use of it originated in Dr Akenhead, who gave $\mathfrak{z}\mathfrak{i}$ in the paroxysm, & 3 or 4 grains every morning. he thought its good effects were produced not merely by vomiting, but by its antispasmodic power. -

Combined with opium, it is a most powerful diaphoretic, as in the form of Dover's Powder...

It has been recommended in a vast number of other diseases, but as others have the same power, we shall not stop to consider them. -

Nicotiana. Cullen does not place this among his Emetics; nor do I know whether it ought to be placed here, or under its other properties - it is a Narcotic, emetine, sialogogue, purgative &c. as well as Emetic. - It was originally confined to the Island of Solago, but is now spread over the whole world. all its fascinating powers depend on its narcotic principle - As medicinal, its emetic power first attracts our notice. Doct Steadman for want of other emetics, gave it to the Hottentots in doses of grs $\mathfrak{v}\mathfrak{j}$, & found it very useful as an emetic in the fevers of that part. - It ~~is~~ is a very harsh emetic, but has some peculiar powers; however as emetic, I should not use it, unless driven to it by necessity, for it is a most violent one. It is said to be particularly adapted to evacuate poisons, which produce a torpor of the stomach, & which therefore require some violent medicine to act upon it. -

I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the above named matter. I am sorry to hear that you are unable to visit the place at present. I am, however, glad to hear that you are well. I am, Sir, very respectfully,
 Yours, Sir, very respectfully,
 J. M. Smith

Externally applied, in form of cataplasm, to the St.
Epigastrium, it often rouses the Stomach & vomits - Dr. Balton says he succeeded by this
mode in dislodging a large dose of Laudanum
(taken with a view to suicide) when white
vitriol & other emetics had failed. - I think
it acts on the olfactories & not on the Skin!

See Dr.
Fowler.

It is nearly allied to Digitalis and maybe
useful where this would be. In some
cases of Dropsy, it lowers the pulse & shows
all the effects of Digitalis. - More of its under
Directies.

Scilla Maritima - this plant is of the
same natural family with the Onion.
it has a large squamous root - its leaves
are broad, flowers spike. There are 2 varieties,
the Red & the White - it grows on the shores of
Portugal, Spain, Sicily, the Levant, Barbary &c.

The Squill tho' formerly much used, is
not now often employed as emetic - 6 grs.
vomit. It is evaporated & loses its power
by decoction. 4 grains of the dry squill
are equal to 20 grains of the recent, as this
last contains much juice &c. -

Tho' not used as emetic, it is much em-
ployed for its other properties, particularly
for its action on the glands & absorbent
system. Combined with opium, Cal-
omel &c it is much used in disease
of the Chest - it is indispensable in
Hydrothorax -

In continuation of emetics, I must here mention an indigenous one, the *Spicea Trepinata*, or Indian Physick. A small shrub, growing in every part of the United States, even in the neighborhood of this City. The root is the only part employed, tho' the stems possess the same properties. The root is composed of a Cortex & a ligneous part; both are emetic tho' the bark is most so. - I have never seen it used, but respectable authorities support it as a powerful emetic, & this I believe is the only property known to belong to it. - The dose is about 30 or 40 grs, which gives a decided superiority to the *Spicea*, the bark being a great inconvenience.

There are several other vegetable emetics, but as they are not used, we omit them; it being my design to exclude all, which are not decidedly efficacious, & thus direct the science of a great mass of rubbish.

We proceed therefore to the Mineral Emetics. The antimonials are the first, & are very numerous; Antimony is a metal, naturally combined with Sulphur, found in Hungary, Transylvania &c, forming the native Sulphuret of Antimony; In this state it is inactive, tho' formerly much used. But among its numerous combinations, there are not a few very active & powerful medicines.

The medical history of Antimony is interesting. Basil Valentine a monk of the 15th Century appears to have been the first, who introduced it into medicine.

Versey. - Friday. - ^{O'Hanlon's diagnosis}
Edin. swell of abd. n. -
Inverness with it. ^(Effects &c.) Blindness. (alluvionous)
(Asket. hydroceph.) ^(Fibris verminosa) I am not able

to distinguish it from ^{Reyn's} from the ^(curse) - & West
Dr. Butten deny its existence - ^{Edin} ¹⁷⁸⁸
many of antihelm. purg. & O'Han. sup. in prospect. to
purg. & O'Hanlon same opinion as other med. which
destroy the life of the animal - some mechan. Montigny Del.

Catt's thin most efficacious - more to the Calomel -
gen. infus of all worm powders. (improp. in sweet med, as
for day. Sal. - strongly de) 4 to 5 grs old - 6 grs - (vised & sweet)
Laster oil next morning - this to be repeated in inst. of few days -
Scam. Gamb. &c. - fashion. ant. in London - ^{3 grs Cal}
with Sulph iron ^{grs} - - - Chenopod. Antheimist

tea in morning. does nothing. - take 3 days success. other
purg. - inter. of sev. days. & repeat de - O'Han
I never used any rem. with wh. aq. ^{with blackhead}
acts more worm - hence small doses Sulph. for

adults - Epigel. manfand. - All parts but root best
5 to 10 grs ^{for 5 years} - 10 to 20 grs for adult. - Infer. 3 grs for ch?
3 grs for adult - ^{Epig.} - Parasite - but eff. from Epig. itself
Dr. B. sup. 2 purg. - deposed - do not trust - better to give
large doses deapt to prod. surv. than small; only

enough of purg. - best to give with Scam or other purg.
(Gallaput) & impur. med. does not vom. the Sav. may
^{Epig. de - & Savin} omitted.
Melia ascedarach - scarcely full. &c. -
Candid. Helleb. fat. & Geoffrea inermis

^(Whyll. &c.)
Iron - very eff. found Dr. B. &c. - ^{Chalybe. Dr. B.} 10 to 20 grs
Sal maris of. n. - ^{in purg.} Div. - 10 - on evening
Ascariids. (Eggs) (3 grs common salt)
Sugr. of plant. (some). perhaps from combin. of them.
purg. above & calomel - ^{Chloro. picea} small
much & -

Emmett - oil does not kill W. W. (slight of warm with oil)
Tobacco. Dury & not successful. B.

Chapman Friday Dropsy.

Canthar - in Cachectia or deprav. cond.
Pres. with very oppos. indic. - to promote inc.
direct, or ~~red~~ ^{reduced not easy} ~~attempts~~, can't seem very
oppos. propri. of. cond. of system - in st. of
high extent - most commonly product of
Strang - but in ~~the~~ ^{reduced} st. in large doses
as ref. very injur. effects on urin. organs.
Thus in weaker forms of Dropsy - gi. 2 or 3
times a day - transient prod. of cop. disch.
as I have even seen, I never any irrit.
of kidneys or bladder - When I hold it to be
a very important in atonic not
on any other observ. corrobor. by respect
auth. - I hold by latter maint. that
not slight degr. of prom. of urin.
sup. alone on neck of bladder most
prob. lead into con. by gi. in imp.
doses or under improv. circumst.
H. Turp. pow. - Stim. direct to kid.
doubt of efficacy but should be in
small doses, 10 or 20 gr. by in. & prom.
purgat. - next call attention to the
that Persuad. - a more adapt. to this
form of Dropsy - Polyg. Sineja

that much pains by Dr F. Williams & others
that has not acquired univ. confid-
of late in quest - gaining ground - I
suspect ~~the~~ inf. by promiscuous un-
certain it is more pointed out for
first admin. of the art. — I am convinced
that most effic in the cas. of puerperal
dropsy depend. on enfeebled st. of placenta &
con. with cachectic st. & a mild. perver-
-ding stim. operates powerf. on all secret
& excret. org. diffusing its influence to
any part of body, exciting absorb.
& vivifying efforts - its offic. size? by
adding Benignat. Calom. - in powder
or pill - gr x to xxx with gr i Cal. &
As a direct excret. action, Colicium
Antimoniale - orig. introd. by Baron Stork
appears in Dropsy, cannot say much
myself - I suspect some had great respect
in Eng^d to her Antidote Contra? — this
mode - Hyemel. (by Bar St. / harshup Dr. in?
3i. several times a day. — within last
2 or 3 years gen. attent in cases of
bas. of the mind. — Sat. v. v. v.
tinct. - tea of it - several t. a day.
Alliaced altt art. — garlic the
most powerful - reaching in many
unchang. det. suspect ~~the~~ & fully
certab by exper. — it is highly stim^g
Dim in weaker forms. Syde

In one case I have used it with great adv.
in dropping from intemperance of course
with great debility. (Many cases of dropsy
I have now reached to close of direct treatment.)

Diaph⁹ another class of kind. consid
emp⁹ in dropsy. - at this? Disch of Urine
Dimin⁹? st. of urine, etc. sup pose, improve
nevertheless amongst. often of very good
Service - - - - - Extern⁹ - atony - by skin skin
punctate & deficient Circul⁹ - in dropsy
Diaph⁹ by centrifug. of. Relieve vision
& rest of the system - - - - - Invert. of the
External in dropsy - - - - - fanning's bath.

Sitting Room
to child Comb. of op - cal & spec. - - - - - Evenly
use of op⁹ alone - - - - - Expector. ~~Caution~~ ^{Mr.} ~~very~~ - - - - -

Mercury - better suited to ascites than anasarca
under circumstances. ^{aggravate} the eff⁹ owing to the inc. eff⁹. but in dropsy
I have now seen? most open in liver & in dropsy
some over at the local sea - much relief
by evac. fluid. punctures by lancet - but not
too deep, for Engorg. inf & gangrene - often ^{called} ~~the~~
to remedy the affect - - - - - Vitals of int⁹ impaired -
Fever - very frequently with the most protracted
of phlegmas - treat at equal. sub. paraffin
Blisters often the cause of the mischief -
Copper cannot be applied - What then
found most therapeutic in a mosty most is tightly
flannel roller about & below

Emmenagogue ~~Retent~~ ~~Suppress~~

Ammonia 2 drs - Retent. Suppress - 1

It

pleasens - (Dark blue) - A. D. - Dae. Sigmoid. And by regular

Suppression (interrupt) - folio. cond. often - Most freq. cause in

the stomach is certain 1 Cold Dr. - When from cold, in feb.

When from other causes, &c. - Emmenagogue. Dr.

Emmenagogue. 4 seed. num. & 2 drs. in prop.

human art. - Ret. at head - Along acting or resting

gently, varied most proper - (Gallagher. about carb. ferri)

(Hooper's pill) - Hellebore niger. Cur. in tincture

st. xxx to transf. - 2 - D - D. med. T. melampod. D.

Cur. has no comp. - D. Phys. xxx. a day for ten days before

period of disch. - attraction - Semi-cupin - frictions -

perhaps equal to any other, but still freq. fail.

Some. acts as emmen. without fringing. - 4/11

Geniae. O. Dever. Vol. tinct. &c. I have often tried

it & none in our inst. has succ. - J. B. Dr.

Polygala senega - Harted & Chapin - J. B. Dr.

Ergot - has been success. in many most obst. Cases,

in our public inst. - 1/11

Scrim. - Abort. - &c. &c. (Not very common)

Compress. of fem. art. - D. Franc. Home - I do not

know that any good effect. - 1/11

Mercury. often acts as attraction - var. prop. of hor.

Object. to Elix. of iron apt. to prod. Colic, when in large quant.

the iron simply act as tonic - after a course of fringing

Mind. Water &c. -

Dysmenorrhoea - often cured. Dif. of men. always

Symptom - of gen. disord. - Low diet & fringing

during fear of. Umbilic. an. glyst & if bear, V. T.

Emmen. - thin starch with 50 or 50 gr. of starch.

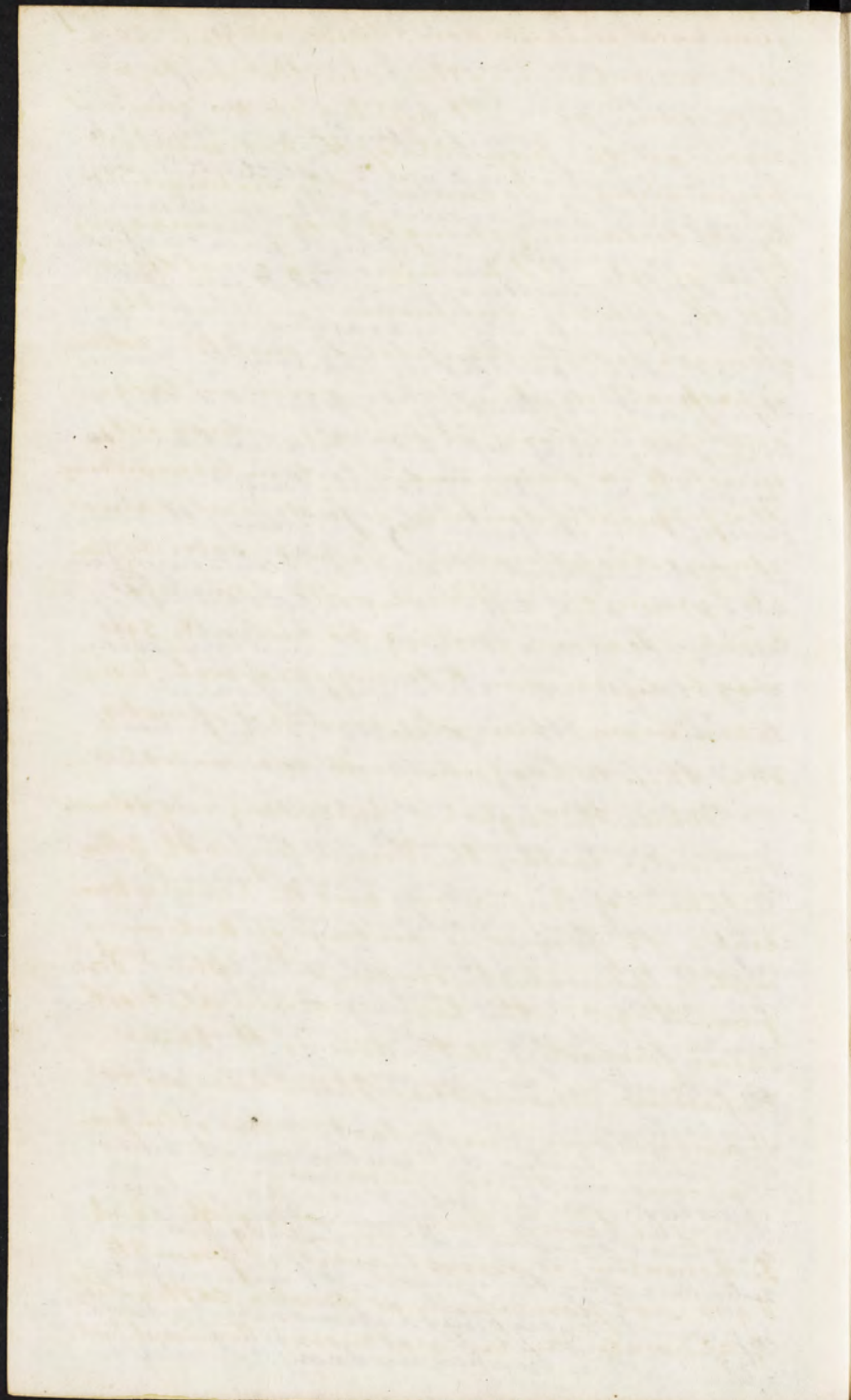
notwithstanding ^{unusual} effie. of this pract
c. not uninf. succeed & we must
act resolutely. direct med. - but
recollect we are still inflamed

- ferment. de - Cure rectly diet & exercise in a
healthy st. of system - Menstr. become irregular,
before sup. - (25 years) prop. to inflame (or st. off. of them).
- low diet generally to be used to females at this period, &
attent. to avoid coitus. Dionis says major of cancer
when menses cease - Ulcers in legs - many stop, & pray
for 20. Buns by -

10.
Finding that it did not injure hogs, he gave
it to his brother monks, but with a different
effect, for they all died; hence it was called
antimonik, & corrupted Antimony. Bar. Val. to
defend it, published a work, entitled the "Curus
Triumphalis Antimonii" - the medicine
however urged its way with great difficulty
into the practice of physick, & soon fell
into disrepute. - It was again revived by
the eccentric Paracelsus; Among the contem-
-ding parties of the day, by some it was re-
-ceived, & by others rejected. Thus in Paris, an
act was passed, prohibiting, under
pain of a severe penalty, the use of this min-
-eral throughout France. - It continued how-
-ever to be used, till it was supported by Hoff-
-man, & still more by Cullen, since whom
it has come into universal practice -

There are three divisions of the antimo-
-nial preparations - 1. the metal combined
with Sulphur - 2. with oxygen & 3. a salt
formed by its union with an acid. Under
these 3 heads, there are several hundred
preparations, of which only a few will be
noticed here. Of their Chemical composi-
-tion we shall say still less; - It maybe
remarked, that all of them, tho' they differ
in strength, have nearly the same general
properties. -

Emetic tartar, the antimoniated tartaric
of potash, is the most used in England &
in this Country - Dr. Fordyce says it was
introduced by Dr. Cullen. - It is indisputably
superior to every other antimonial prepara-
-tion - It is unrefined, inodorous, colourless & is



given in a minute dose. hence it can be exhibited when no other emetic can be, as in Children &c. - It possesses in an eminent degree all the properties of the Antimonial preparations. - As Emetic it is distinguished by its certainty, strength, & the permanency of its effect. It produces in a great degree all the effects of Antimonials - When the stomach is to be completely emptied, nothing is preferable to it. - When given in large, or repeated doses, it purges, which adds much to its value under certain circumstances. It is frequently diuretic, expectorant, & almost always diaphoretic - To purge actively, from 2 to 5 grains are sufficient, with some tepid drink. To avoid puking too violently, 5 grs may be dissolved in 6 tablespills of water, & one taken every 10 minutes, until it operates; it is then to be assisted with warm water &c.

While the English & Americans, rely so much on Emetic tartar, the French prefer the Golden Sulphur of Antimony, and the Kermes Mineral - the former is an oxyd of Antimony with Sulphurated hydrogen, & Sulphur. Dose from 3 to 5 grs. - the Kermes mineral has the same properties, & the dose is the same. - Experience shows that these have no advantage over Emet. tart. & are often precarious in their operation. -

The Pulvis Antimonialis, of the Edinb. Dispensatory, is much used. - from 5 to 8 grs act powerfully as emetic, cathartic, diaphoretic &c, but not more so than Emet. tart.

58.

From analysis & its effects, it is said to be the same as the celebrated James' Powder. An oxyd of antimony with phosphate of lime. but James' powder is said to salivate sometimes; if so, it probably contains some mercurial preparation. It lost its reputation before I came into practice, but I saw it used occasionally in England. —

The Antimonial Wine, as now prepared, is a solution of Emetic tartar in wine, which is a convenient mode of administering it. It was formerly made by a solution of the glass of antimony, but this mode is objectionable, on account of its uncertainty. the glass of ant. being only soluble in acid, the strength of the wine of ant. must vary according to the degree of acidity in the wine. In the Edinburgh dispensatory ℥i wine contains grs ij Emet. tart, & the whole is a dose. — In the London Disp. ℥ss contains grs iv. & ℥ss is the dose — for an infant soon after birth, 2 or 3 drops are sufficient, 15 or 20 to children within the year. but in Croup the dose must be much larger; even a teaspoon is often requisite —

There are all the preparations of antimony worthy of your attention.

The Emetic tartar concentrates in itself all their properties; we shall therefore speak only of it, in the application of antimonials to diseases; & we shall dismiss the subject in a few words, as we have already anticipated much.

In Febrile affections; it is given first to evacuate the contents of the stomach, & then in nauseating doses to excite diaphoresis. it is used both in continued and intermitting fevers; in the latter when given soon before the expected paroxysm, it often breaks the course of the fever. Dr. Cullen first introduced it in fevers, & its use soon became universal. its modus operandi is uncertain; Dr. Cullen thinks it acts & only by producing vomiting or nausea. Dr. Fordyce (Sir George) says it has the greatest effect, when neither is produced. - It certainly sometimes produces good effects without either, & I am inclined to think the truth lies between them. -

In inflammation it is highly useful particularly after V.S., & combined with opium & Calomel. -

In Dysentery I have used it with less success than the ipecac. - Sir Geo. Baker however & some others give their testimony entirely in favour of Emet. tartar; and such men's opinions are entitled to great weight; yet from my own experience I cannot but think Ipecac preferable to it. -

In eruptive diseases & all diseases of the skin, it is recommended. In the fever proceeding the eruption of the small pox it is of the greatest use. -

When extreme muscular relaxation is required, emet. tartar is employed; hence its use in Dislocations &c. -

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[Partial view of handwritten text from the adjacent page on the right.]

110.
I believe it might also be given with the same
view in some cases of Strangulated hernias.
In Tetanus I have used it with great
success; a Frenchman was admitted into
the almshouse for tetanus; his jaws were
completely locked; not being able to give any
thing by the mouth, I ordered ℥ss. Emet. tart.
in ℥ij warm water to be injected every hour.
after the 2.^d injection he conversed with ease,
& a cure was effected by ℥i of Emet. tart. as enema.

It is used also to produce a relaxation
of the uterus in difficult labours with great
benefit. - It is common for women to be
delivered in the last stages of fever, & in
fact, pregnant women seldom die before
delivery - in Pulm. Consumption labour is
remarkably easy; in the same way, I
believe tart. emet. facilitates labour, by
producing a relaxation of the uterus.

Emetic tartar has lately been much
praised in certain gonorrhoeas, partic-
ularly when too acid arstringents have
been injected into the urethra. -

It is also of great use in poisons; Dr.
Roussau was labouring under all the symp-
toms of poison from eating pheasants,
which had fed upon laurel berries; he
was cured by injections of Emet. tart. as
used in the case of tetanus mentioned above.

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We are now to mention some others of the mineral emetics, tho' of minor importance.

The preparations of Copper afford us many powerful emetics, but the only one in use is the Sulphate of copper. It ~~is~~ not given by Cullen with a view to its emetic effect, but in nauseating doses as a diuretic. - Much has been said of it in incipient Phthisis. Dr Simmons of London gives it to excite vomiting every morning, & many suppose the advantages of a Seavoyage may be thus obtained from it. - I know nothing however that particularly recommends it; it is said that its action is purely local, & does not produce relaxation as Ipecac does, & still more Emet. tart. If this be true, I suspect, that it is not beneficial in Pulm. Consumption, for in this disease, emetics are only useful by equalizing arterial action, & of course by acting on the System. -

In *Cynanchu Trachealis* it is recommended, particularly by Southern Physicians, who say it acts as emetic, when others will not. - If this be true, it is a great advantage, for nothing is more desirable than certain emetics. - Combined with Emet. tart. (2½ grains of each) it forms the famous dry vomit of Maryatt, once much in fashion, but I know nothing of it. -

As emetic, I am but little acquainted with the blue vitriol; Confiding in others, I have been unwilling to substitute this for them;

1841
The first of the year was a very dry one
and the crops were much injured
by the drought. The wheat was
very poor and the corn was
also much injured. The
cattle and sheep were
also much injured by the
drought. The people were
very poor and the
country was very dry.
The first of the year was a very dry one
and the crops were much injured
by the drought. The wheat was
very poor and the corn was
also much injured. The
cattle and sheep were
also much injured by the
drought. The people were
very poor and the
country was very dry.

but let not my scepticism, but your own 42.
experience guide you. Dose from 2 to 5 grs.

Many preparations of Mercury are emetic, & perhaps as certain as any others. Calomel produces all the effects of emetics; but Turbith mineral is the only one much used as emetic. It was formerly used only for the purpose of salivating, but more recently has been applied for other purposes in many diseases; Combined with Squill, it is given in Cyranche maligna, Dropsy & the Syphilitic Swelled testicle - 5 or 6 grs of turp. min. scarce enters the stomach, ^{before} ~~before~~ puking is excited. hence its use in poisons, to which Cullen limits it. . . There are 2 objections to its general use; it is too violent, & always salivates. —

Corrosive sublimat has long been used as emetic, but not in general practice. its action is violent; but I am told it is used with success, in Croup by the practitioners of Maryland. I would however caution you against its particularly in children. I am persuaded we do not need it, as the others will always suffice, after the susceptibility of the stomach has been restored by V.S. & warm bath. (See above - page 25.) —

Of the Preparations of Zinc, the Sulphate is the only one used as emetic - X or XV grs prove very suddenly emetic, & hence are used for evacuating noxious substances from the stomach. Boerhaave thought it better in vegetable than in mineral poisons; why so, I cannot say. — D Cullen, who is not

[The text on this page is extremely faint and illegible, appearing as a series of horizontal lines.]

friendly to any mineral emetic (Emet. tart. excepted) 43.
does not like this - he says its emetic & nau-
-sing effects are too severe & too long continued.
But others deny this, & Dr. Morley says that
"white vitriol besides being safe has the advan-
-tage over all other emetics; for it never harass-
-es the patient; it operates generally instantan-
-eously & is as soon over, leaving the stomach
strong & calm, & never causing spasms of the
viscera, as emet. tart. Sometimes does."
From my own experience I should judge
this somewhat extravagant, tho' I confess
Dr. Cullen is in the other extreme - It is
indeed one of those emetics, which I have
used with most advantage, & without
any bad consequences.

White vitriol is of extensive use in dysia-
-ria. Besides its emetic effect, it is used in Neuroses,
but only I think in emergencies...

I formerly said it was preferred to all
others in Pertussis in its early stages; becau-
-se it is not only emetic but antispasmodic.

In Cyanosis trachealis also, when vio-
-lent, it is superior to any other except
tart. emet. In slighter cases, Ipecacuanha
very well.

White vitriol is the basis of the valu-
-able preparation, known by the name of
Morley's vitriolic Solution. Wh. vitriol. ℥ij-
Alum ℥i - Cochineal gr. iij - Boiling water ℥j.
the Cochineal is first to be rubbed fine in a
marble mortar, the alum & wh. vit. are
then to be added & triturated - then the water
is to be poured on - & the whole set by to settle
when cold, pour off the fluid. of this ℥ss is
an emetic dose for an adult - but for nauseating

dose, a small tablessfull for an adult; & a tea-
-sp^{oon}full for a child 6 months old. - Dr Moreley says
that whatever adds to its taste or renders it spa-
-latable, detracts from its virtue - nor will
the same substance, in form of pills, have the
same effect.

In diseases of the bowels, particularly Dys-
-entery, it is a most valuable preparation.
it is the best med. except ipecac, & in many
cases preferable to it. - Moreley says it
should be given (in Dysentery) first without
alum, to purge, & then with alum in nau-
-seating doses, & at night ^{an} opiate with it. -

In Diarrhoea of long standing, Moreley gives
it every morning & night for months, omit-
-ting it occasionally for 2 or 3 days. at first
let it vomit, but afterwards, if it nauseate
too much, lessen the dose, & if it gripe or
purge, add Laudanum to it. -

In those cases of Colic arising from lead, after
purging, this med. is eminently useful -
- every 5 or 6 hours for several days.

In Angina Maligna it has been used;
but I know nothing of it - it probably answers
a good purpose in throwing off the Sloughs. -

In Pulmonic oppression, taken once or
twice a day, particularly in the morning,
parting; its effects are very salutary. In
Catarrhal affections, Chronic pertussis.
& Asthma. -

In haemorrhagy of the lungs, I know that
nauseating doses of it give great relief; like
ipecac, it diminishes arterial action, &
the Constriction of the surface, the cause of
visceral obstructions. -

In Phthisis Pulmonalis, the opprobrium med. 40.
icorum; Some have more faith in it, when
given in the early stage than I have. I am so
fond of Specae, that I have not used this;
but I am told that Dr Barton thinks Pulm.
Consump. more manageable by this, than by
any other medicine. If it has half the
virtue ascribed to it, this solution is a most
valuable medicine. -

Lecture 10th November 28th 1814. - 40.

Cathartics. We finished in our last lecture the subject of Emetics, & now proceed to Cathartics, which constitute a most important class. The intimate connexion existing between the alimentary Canal & other parts of the system, gives to Cathartics a most extensive influence. They are such medicines as increase the evacuations from the intestines, or excite purging. - As this process is natural, & not accidental as is the emetic operation, these medicines merely assist Nature. They differ much in point of strength; some are mild & merely evacuate the contents of the alimentary Canal without producing any effect on the system. Such are the laxatives - others stimulate the muscular fibres of the intestines & cause an afflux of the secretions - and the drastic purgatives act with still greater violence. They affect the stomach & excite the intestines to a redoubled activity.

Cathartics have been employed in every age, & seem to have been pointed out by instinct. They are known among the rudest and most uncultivated Savages; yet their utility & the mode of administering them has not been rightly understood.

According to the tenets of the Judicial Astrology, it was once customary to exhibit them only under certain changes of the moon &c. - this prejudice even now exists in a degree, & produces considerable inconveniences, particularly in Germany.

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The humoral pathologists conceive, that a morbid matter was generated by fermentation, & that Cathartics expelled this; & that every fluid required a different Cathartic. hence the Cholagogues, the Hydragogues, &c. - Their utility however is very certain, whatever may be the obscurity of their *modus operandi*. - We shall speak first of the general effects of Cathartics, then of their application to diseases, & lastly of individual Cathartics.

The first effect of a Cathartic is the evacuation of the contents of the intestines. - These viscera are subject to various accumulations, which bring on & confirm diseases. Cathartics not only discharge these, but also empty the Stomach. Besides this, they increase the action of the exhalents of the intestines, & promote the pancreatic and biliary secretion; thus by producing a copious discharge, they diminish arterial action, & equalize excitement throughout the system. hence their utility in inflammatory affections.

Though their local action is undoubtedly stimulant their remoter & more permanent effect is certainly sedative. I am aware of the difference of opinion with respect to their action on the arterial system. Dr Cullen says, that they increase the action of the exhalents, but in so small a degree, that they cannot produce by this means any great effect on the arterial system. This is certainly erroneous; but this is so generally known, that it is not necessary for me to dwell upon it. Diseases in which Cath. are indicated.

In Fevers of every form; the principle on which they act has already been mentioned.

They diminish and equalize arterial action, 118. -
stimulate the exhalents &c. &c. They are
useful in every stage of Fever. Given in
the incipient stage, they not infrequently
check its progress; during the course of its
regular & often active discharges from the in-
testines are necessary, & far from diminish-
ing, they increase the strength of the patient.

In infants, it is now customary to pre-
fer them to Emetics, to prepare for the re-
ception of the bark. The only reason for this
preference is that they are not so disagree-
able; but Emetics are often indispensable.

In remittents, Cathartics are equally useful,
and more frequently necessary. They are
employed daily to evacuate the bilious mat-
ter, & to bring down the force of the arterial
system.

In inflammation with local de-
termination, they are allowed to be in-
dispensable, & without them we should
scarcely be able to manage Phrenitis &c. I do
not mean to deny the efficacy of V.s., but
both are necessary, & they are more effec-
tual, when conjoined.

Cathartics act also by Revulsion, i.e.
by diverting the blood from the diseased
part. - Thus by increasing the afflux
of blood to the descending aorta, they dimi-
nish the fullness of the parts depending
on the ascending branches. Thus in dis-
eases of the brain &c. -

From the same principle they are es-
sential remedies in all fevers attended
with eruption, as in Smallpox, Syphilis,
Scarlatina &c. - (See page 50.)

Hitherto we have spoken only of inflammatory 49.
diseases; but in Typhus they have been newly
introduced by Dr Hamilton, one of the first physi-
cians in Europe, to whose valuable work we refer
you for the relation of cases. It has long been
treated by ~~very~~ mild antimonial &c & in the
more advanced stages by Stimuli - Finding
this practice unnecessary, Dr H. had recourse
to Cathartics, & with the greatest success. He says
that, after long giving his attention to the sub-
ject, he is now convinced that full and regu-
lar discharges relieve ^{the} oppression of the stomach
and mitigate all the other symptoms. He be-
lieves they act thro' the whole tract of the inter-
stines, carrying off the feculent matter -
hence he prescribes aconites, as Calomel &
Jalap & gives them every day. He however
does not exclude other remedies, but assures
us, that since using Cathartics, he has had
much less need for Stimulants, & finds the
disease much more manageable. -

This mode of practice has become universal
in England, & indeed on the Continent; but in
the U. States the Typhus mitior & gravior of
Cullen does not exist. Our Typhus is very
different; it occurs in very poor people &
generally in winter. debilitated by cold, a
slow fever attacks them, & lasts for 6, 7 or 8
weeks, having most of the symptoms of the
Typhus mitior of Cullen - The Typhus
prevalent for some few years past in dif-
ferent parts of this Country, is a new disease
never before described. -

In Phrenitis Cathartics are of the utmost
importance - In Mania they are much

employed; always as an auxiliary. To show the influence Cathartics may have on the brain, I will mention that no disease so frequently alternates as Mania & bowel Complaints. Thus in the almshouse, in many of the lunatics, mania has been removed, while they were labouring under the Dysentery.

In the inflammation proceeding Hydrocephalus internus, active and daily Cathartics are necessary. - In Apoplexy of the head, in contradistinction to what we have above called gastric Apoplexy Cathartics are the best remedies except V.S. - In Paralysis, of which I have seen many cases during the last year in the almshouse & elsewhere - I formerly used V.S. blisters &c & then Stimulants, but finding these not successful, I threw them aside, & used the Cathartic plan, which has succeeded beyond my most sanguine hopes.

In the exanthemata - Such a close connexion exists between the skin & bowels, that Cathartics are of the 1st importance in diseases of the skin - In Small pox they are next to Cool air - In Erysipelas they must never be neglected; with them a wash of a watery solution of opium is very successful; I have found it much better than Candarium. -

In Scarlatina Dr Hamilton has also used them; indeed their utility in this dis. first induced him to use them in Typhus. - He says he never witnessed the revulsion (or vulgo, the striking in) from the use of Cathartics in Scarlatina. The practice is novel, but certainly proper &

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51.
Nor are they less useful in many of the cutaneous diseases, without fever; indeed they are the only remedies used except topical ones. These diseases are sometimes seated on the very margin of vital influence, & therefore topical remedies alone can be useful; but they are generally more constitutional, & require purgatives - I refer you to Willan on Cut. Dis. - They are indicated in most of the disorders of the alimentary Canal -

Costiveness. This is a relative term, for some require daily evacuations, while others can pass weeks, months & even years without them, & suffer no great inconvenience. Thus Haller relates a case of a person, who was 20 years without an evacuation from the intestines; & Dr. Rush used to mention a sea captain, who never had a stool from the time he left port, till his arrival at the end of his voyage. he was a regular trader between this city & Europe. - The Costive habit however is generally attended with headache, vertigo, loss of appetite, nausea, &c. & its remote effects are a series of chronic diseases of a most obstinate nature. Costiveness arises from a variety of causes, but principally from two - 1.^o want of irritability in the alimentary Canal, or 2.^o from a defect of the biliary secretion, or some vitiated matters lodged in the intestines. Each of these causes is to be removed by purging; the 1.st by stimulating purges, & the 2.^d by Mercurial ones - Of this we shall say more in treating of individual Cathartics.

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52.
Besides habitual costiveness, there is often a
Spasmodic constriction of the intestines, as in
Colic &c. in these Cases purgatives are in-
dispensable. - I will add only one practical
remark; in some instances of intestinal
obstruction, as in the bilious Colic, when Cath-
artics are ineffectual, large doses of opium
will quiet the irritability of the stomach,
& stop the vomiting; a short time after, the
spasm ceases, & the cathartic acts - then or-
der Opium gr ij - with Calomel gr x. & xv. so
that as soon as the opium has relaxed the
spasm, the Calomel may operate. -

Whatever be the difference of opinion
with regard to Dysentery, all agree that pur-
gatives are necessary in its commencement.
also in Diarrhoea whether from irritation or
other Causes. -

In Worms - This disease usually
appears soon after weaning - it has long been
treated by bark &c, but I am convinced that
tonics are not the proper remedies.
Different Causes are assigned; some suppose
it arises from worms, & some from obstruction
of the mesenteric glands; but I think it pro-
ceeds from a torpor of the alimentary Canal,
& all the Chylopoietic viscera. - My reasons
for this opinion are, that the intestines are
loaded, the liver is enlarged, & the mesenteric
glands swollen - But the practice is the
same, from ^{whatever} ~~a~~ such cause it proceed - if from
worms, purgatives are our best anthelmintics;
if from obstruction of the mesenteric glands,

Cathartics are the best deobstruents, & if 53.
from torpor, stimulating purgatives are
the proper remedies. —

These are in Mearns two distinct stages, the
incipient and Confirmed. In the 1st stage,
mild laxatives will often effect a Cure; but
in the Confirmed stage, there is a great insen-
sibility, & the intestines are overloaded; hence
powerful doses are required. The daily admini-
stration of large doses of Calomel, instead
of debilitating, always strengthens the patient.

In Chlorosis this class of Remedies has
signalized its powers. — I shall not give you
a history of the disease, as that belongs to
another province. — Doct. Hamilton
has most strenuously advised the use of
purgatives in this disease. A little atten-
tion shows that the principal symptom
is Costiveness, & perhaps it is the Cause —
This renders the breath fetid, produces paleness,
languor, loss of appetite, weakness, & serous
effusions. Dr Ham^r impressed with these
circumstances, many years ago experienced
the good effects of Cathartics in this disease &
has since had the satisfaction to find his
opinion confirmed by ample experience.
I can say nothing on this subject from
my own practice, as I never saw a clearly
marked case of Chlorosis, (a dis. extremely rare
in this City), but in other diseases nearly
allied to this, I have used Cathartics with
great Success. —

Dr. Hamilton also uses them in Hematemesis, 54.
attacking females at a certain time of life. I
have never imitated this practice, but have
always used the remedies for other hemorrhages.
It has generally been supposed that this was
a vicarious action of the stomach for the uterus,
taking the place of the menses, & I am inclin-
ed to this opinion; for I have always observed that
Aménorrhœa was present. Dr. H. however
says it is caused by a constipation of the
bowels, & is certainly cured by Cathartics.

In Gout there has lately been used in France & London a quack medicine with great success - the "Eau medicinale d'Hupson". Some suppose it to be a preparation of Tobacco, others of hellebore & opium, & others of Elixirum.

It is a vinous tincture, resembling ale in its appearance, nauseating & bitter, having the smell of Spanish wine & some plant. - The dose is $\frac{zjss}{\text{to } \frac{zj}{\text{at night}}}$ - in 4 or 5 hours it lessens the pain, & the patient awakes in the morning with nausea, vomiting & bilious evacuations; Fever & irritation are diminished,

a moderate diaphoresis, & a purging of bile. - It is at all events a drastic purge. I have known it used in 3 Cases with success. -

The 1st was a Foreman, who was in the most violent pain & fever witnessed; in the evening he took a dose of this med. & a short time after, nausea & a very copious purging came on; followed by a profuse diaphoresis; the next morning he was well enough to leave his room. he had no return of the dis. for 6 months, when a similar attack occurred & was relieved in the same way, since when he has had no return. - The 2^d Case was

attended by Dr. Physick, Dr. Keim & myself, & was a case of retrocedent gout. - 40^{gth} brought on vomiting & purging, & cured the disease. - The 3^d Case was a patient of

Dr. Wistar's, in whom the result was the same. Dr. Jones has collected 2 or 3 hundred Cases from different Physicians attesting the utility of this med. Some of them from men of great respectability, Sir Jos. Banks, Sir Geo. Baker &c.

It is unquestionably one of the most efficacious medicines ever used in Gout. its decided efficacy has lead to an investigation into the Pathology of Gout. - It is an old practice to purge in Gout, & continued the universal one, till prohibited by Sydenham from mere hypothetical principles - Tho' Dr Sydenham admits that the patient feels no pain during the operation, & if repeated, maybe relieved; yet he forbids it, & it was accordingly abandoned, & the paroxysm allowed to expend itself. I could show the concurrence of the testimony of all the Physicians from Hippocrates to Sydenham in favour of purgatives in this disease. - But curtailed by the authority of this great physician, the majority since his time have abandoned the old practice, & allowed the paroxysm to expend itself - It appears to me that the example of Sydenham in this instance has been extremely mischievous, as it caused the desertion of a practice calculated to relieve or overcome the disease. It is not my duty to enter minutely into the history of the disease; if it does not originate in, it is at least connected with a certain state of the Stomach &c, which indicates a disease of the alimentary Canal. Thus the precursors of a paroxysm are flatulency, acid eructations, indigestion, depraved appetite, nausea, burning sensation in the Stomach, & obstinate Constipation. It may seem extraordinary that a disease whose regular seat is in the extremities,

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should be so closely connected with the stomach &c. but I could easily show it not to be irrational. whether correct or not, the practice is at all events warranted by experience. It is not sufficient to produce merely an evacuation, but the intestinal Canal is to be wholly emptied. This will sometimes put an end to the paroxysm; but generally successive purges are necessary; my practice is to give a very large dose of Rhubarb & magnesia every day or every other day. If this practice is not uniformly successful, it is more so than any other; and if it does not always cure, it mitigates the violence of the paroxysm, & renders the patient much more comfortable.

As this differs very materially from the generally received practice, it is necessary to add some other reasons in its favour than my own experience. I could prove it from reason, & from the testimony of authors; If the disease be accompanied with the symptoms above enumerated, there is no doubt of the correctness of the practice. - We have been too prone to a superstitious awe & to dread to attack this disease - The first step towards success is to lay aside our fears, & subject it to the usual remedies -

The disease is always removed or abated when a spontaneous Diarrhea or Dysentery comes on - Thus Hippocrates says, it can never be cured while the bowels are constipated, unless by the providential occurrence of

a dysentery - and the same author adds, that 38.
the best effects are perceived from a profuse dis-
charge, or as he emphatically terms it, "a melting
down of the bowels." Nor would it be difficult
to adduce many other authors to attest their
efficacy. The Confession of Sydenham is truly
curious; he says, it is suspended by diarrhoea,
& the only means to restore the paroxysm,
which he supposes essential to health, is to
check the diarrhoea, as the paroxysm "comes
thundering back on the extremities." Nothing
can be more conclusive than this confession.
We have already said it was not a new prac-
tice, but time will not allow a retrospect.
We will only state that the practice was
pursued by the Greeks, Romans, Arabians, &
all the Europeans after the revival of letters.
All authors previous to Sydenham speak
of them either with enthusiasm or with the
greatest confidence. Their purgatives were
all of the drastic kind, as Scammony, Jalap.
for Lenna, manna &c were not known be-
fore the discovery of America, & the Neutral
salts are the products of Chemistry. We do
not however hear of any evil consequences,
so much dreaded by Sydenham & his fol-
lowers. See Hoffman.

Great as was the homage paid to Sydenham,
it did not wholly abolish the practice of
purgings in Gout; thus Dr Cheyne informs
us, that, during his time, many practi-
tioners had so little deference for Sydenham,
that they did not scruple, in a fit of the
gout, to administer active Cathartics.

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Even Sydenham admits that during the operation of purgatives, the patient suffers but little pain, and if the cathartics be repeated, the paroxysm may be stopped; but he supposed it dangerous to allow the disease to leave the system in any other way than thro' the intestines & extremities. —

Almost all the remedies of celebrity, both of regular physicians & of empirics, are composed of articles powerfully cathartic. Most of them contain Scammony as a principle ingredient. It also appears, from the experiments made to ascertain the ingredients of the Eau medicinale, that many powerful cathartics & particularly the Elatium or Cucumis agrestis were very successful in many cases of Gout; the elatium is confessedly the most powerful cathartic we have. — From all the above reasons, I think we are entitled to conclude that cathartics are safe and efficacious medicines in Gout.

Nearly allied to Gout is Rheumatism; indeed it is often difficult to distinguish them from each other. — Rheum. is generally produced by exposure to cold &c. but Gout arises from no evident Cause; Rheum. has no preceding or premonitory symptoms, & we have seen that Gout always has. Rheum. limbs are not red like gouty ones; Rheum. attacks the robust & active; Gout the debilitated, and inactive — Rheum. is seated in the larger & Gout in the smaller joints; each remits, but Rheum. regularly, & Gout irregularly —

Acute Rheumatism is a purely inflammatory 60.
disease; hence v.s. & Cathartics are in-
dicated. - But it sometimes lasts for months,
and the strength of the patient is diminished,
yet the arterial action remains increased,
and v.s. will only moderate it for a time,
affording merely a temporary relief, & increas-
ing the excitability of the vessels. - Under
these circumstances, Cathartics are of the
greatest advantage. - No two diseases
alternate more frequently than Rheum.
and Dysentery or Diarrhoea. - On this fact
Richter has built his hypothesis that Dys-
entery is nothing but a Rheumatic or
Catarrhal affection of the bowels. -

In Dropsy, particularly Ascites, and
Anasarca, purgatives are highly recommended.
In Hydrothorax, they do not promote
absorption, & are generally injurious, as
they are in all affections of the chest, as in
Asthma, Pneumonia &c. - Even in Pleu-
risy, they are not to be used to any extent.
I now speak of active purging, & not of keep-
ing the bowels regular, which is high-
ly necessary in all these diseases.

They are however of the greatest utility
in Ascites and Anasarca; Sydenham
gave a drastic Cathartic every day, unless
the debility was too great. - he thought
the laxatives useless & even injurious.
I think his practice was correct, & the
Cathartics used should be those formerly

61.
called hydragogues, as Jalap, or a combination of Jalap and the Cream of tartar.

I have often obtained from this union both a cathartic and a diuretic effect. They reduce arterial action and promote that of the absorbent system; they stimulate the excretories of the intestines, & produce an afflux of fluids to them.

Dropsies are also often caused by or promoted by diseased enlargements, or obstructions of the liver, spleen &c. Cathartics, by stimulating these organs, restore them from their torpor to a healthy action & thus effectually cure the Dropsy.

To conclude the subject we have been treating, I will now call your attention to some of the Neuroses or nervous & spasmodic diseases.

Chorea Sancti Viti. It is sufficient to say that we have long been in the habit of referring this disease to debility, or loss of tone in the system, & hence it has been treated by tonics & antispasmodics. It is only of late that a new mode of treatment has been introduced. - Dr Hamilton, conceiving that the spasmodic affection was only symptomatic of Constipation, & deserting his former opinions as erroneous, altered his plan of treatment accordingly. - His first object was therefore to remove the Constipation; for this he admin^r. purges regularly & in moderate doses; he began this practice with caution, but finding it safe, he followed it more boldly, & the success of his practice has warranted the correctness of his opinions. Tho' I do not wholly adopt Dr H's theory, I can say however, that I know no chronic disease, which is so curable by any plan of treatment, as Chorea is by purging. My practice is limited, but Cases are related in the late European journals confirming Dr H's practice. -

In Chorea, there are two distinct stages; in the first, the stomach and intestines retain their susceptibility, & mild purgatives will often effect a cure, or rather, prevent the full formation of the disease. But in the 2^d,

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the alimentary canal is insusceptible of 53.
impression except from large and powerful
Cathartics — These should be given in such a
manner, ~~as~~ that the last may maintain the
former, & never allow the impression to sub-
side entirely. Thus a series of purgatives is
necessary; otherwise relapses will be the con-
sequence. The Patient of course, & his friends,
must ~~be~~ be prepared for obedience & tedious
perseverance. The cure is slow & impresc-
tible, & seldom is completed in less than 3
or 4 months. Within 10 years past, being
physician in the Dispensary & almshouse,
I have perhaps seen more cases of this disease
than any other practitioner in the City
during the same time — I have had 6
or 7 confirmed cases under my care,
two of whom were completely cured by Cath-
artics, & the rest much relieved. I had not
a fair opportunity of trying the plan on
these, as either they were discouraged, or
my ^{term} ~~period~~ of attendance expired. — The first
case I cured was a boy 12 years old, a case
of long standing, and all the tonics of the
Materia Medica had been exhausted on
him. he was cured by continuing the
Cathartic plan for 6 months. Thus you
must not be discouraged, if the cure is
not performed suddenly; months are nec-
essary, & a total revolution in the system —
Sometimes tonics are necessary to con-
firm the cure, but I never saw a cure
without purgatives. —

Nearly allied to Chorea is Hysteria. — As its 64.
name imports, it is supposed to arise from
affections of the uterus. Its paroxysms begin
with spasmodic action of the alimentary
canal, which is communicated to the brain.
Yet its connexion with the menstrual flux
and its dependence on the genitalia, show
that we are right in saying that it is caused
by affections of the genital system; but how
the uterus & ovaria are affected, & how their
disease produces the effect on the alimentary
canal & brain, we cannot explain. —

The predisposing causes are a great mobility
of the system, depending generally on its ple-
thoric state, to reduce which low diet is
necessary. — The most powerful tonics have
been employed; but I am inclined to think
this practice erroneous. This disease, in my
opinion, as well as all others of the Class Neuroses,
is seated, or intimately associated with the
alimentary canal. Thus its symptoms
are pain in the abdomen, flatulency, Con-
stipation at one time, & at another nausea
& purging, acid & fetid eructations, &c. —

For this opinion I have the greatest autho-
-rity; but I practiced it long before I saw Dr. H's
work — Dr. H. says he has not often seen nausea
& purging in pure hysteria; but their presence
would not deter him from purging. He then
relates a number of cases, showing the success of
his practice. — I myself have not been dis-
-appointed in my expectations; my success has
been great, tho' my experience is but small. —

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I have also called in the assistance of the p^o 65.
and tonic remedies, but merely as subsidiaries.
I never use them in the commencement, but
only after the plethora &c are subdued. Active
purgers are necessary to produce moderate dis-
charges, (the intestines having lost their suscepti-
bility) & should be continued, until the evac-
uations become natural. I prefer Calomel & Jalap.

In Epilepsy I have used Cathartics with
more success than any other medicines;
tho' the practice is not original in me, yet
no one has carried it to the same extent.
Epilepsy is connected with a mobility of the
system, from irritation in the intestines-
thus it is produced by worms, by the Sordes
in Dysentery, by poisons &c. by repelled
eruptions, & very often by obstinate Constipation.
My practice is not only to evacuate the intestines,
but to continue the Cath^os from day to day,
unless imperiously forbidden by circumstances.
By these means I have completely cured two cas-
es, & relieved several others; & I believe that,
if submitted to this treatment, it would no
longer be one of the opprobria medicorum.
I cannot learn that the practice has been car-
ried to the same extent by anyone else, either
in Europe or in this Country. In the year 1800, in
an inaugural thesis I had prepared, & which
I read to the Med. Society, I laid down the whole
pathology of this disease, as supported by D. H.
but being obliged to write on Hydrophobia in
defence of the request of Dr. Rush, I did not
offer this thesis to the public till some years after,
in *Edinburgh Review*.

Tetanus. — This is only an acute and aggravated form of the above diseases — Each of the 3 last has sometimes taken on the tetanic form. It proceeds from various causes, but often depends much on the alimentary Canal, & is universally accompanied with disorder of that part of the system. Thus even when it proceeds from a wound, nausea, anxiety &c are experienced. . . Bites of venomous animal, vicissitudes of atmosphere, violent substances taken into the stomach, as Corium &c — Children are very apt to be affected with it from ardent spirits also from a irritated state of the stomach and intestines; Constipation &c. — It is also symptomatic with bilious fevers, as Dr Rush testifies in the Yellow Fever. — The alimentary Canal, if not the seat of the disease, is at least always disordered — In one species this is fully established; in the "Trismus Narcentium", from retention of the Meconium. — Nor do we want for direct proof of the efficacy of Cath. in the other forms. In genuine Tetanus from wound, the practice has been warranted not only by Dr Hamilton, but by many others in late periodical journals. —

What I have said on this subject must of course be wanting in perspicuity, but it does not belong to this Chair to enter minutely into the history of diseases; my only object was to offer my own particular opinion on Cathartics. —

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Lecture 13th December 1st 1814. — 67.

Individual Cathartics. I state above that Cathartics varied in their strength, & were accordingly divided into laxatives and purgatives. But either effect may be produced by any Cathartic, by augmenting or diminishing the dose; of course I shall not adopt the distinction, but propose to speak first of the vegetable and then of the mineral Cath⁹. I do not know, but this division may be equally liable to criticism, but having adopted it in emetics, I retain it here. I shall only call your attention to those, which are decidedly efficacious.

The first in the Catalogue is the Oleum Ricini, or Castor oil; obtained from the seeds of the Ricinus communis, or Palma-christi, which is a native of the W. Indies, but grows well in this country. The seeds are variegated with dark & light stripes, like the animal ricinus or Tic, from which the plant derives its name. — The seeds have been long known as Cathartic, but were rejected, as their envelope was extremely acrid. and it was only about half a century ago, that it was discovered, that the oil was an excellent Cathartic & free from this defect. It was first used in the Colica Pictorum of the W. Indies, & is obtained by ^{cold} expression, decoction, or thro' the intervention of fire. — The first is the mode used in Europe, & the 2^d & 3^d in the W. Indies. — The cold expressed oil of the shops, filtered, makes a very clear & pleasant oil.

Perhaps the best mode is to boil the seeds in oil.
water, & skim off the oil, which is without
taste, and can be kept a long time without
becoming rancid. This is a mild but certain
cathartic. It does not stimulate or gripe &
is admirably calculated merely to open the
bowels in sedentary & contin. habits; for
most others, particularly the resins, are apt to
increase Continence, & also lose their effect by
habit; whereas ol. Ric. is said to increase
in power by habit, & always to leave the
bowels in a loose state. —

In Colica Pictonum its use is too well known
to need particular attention here; but we cannot
trust to it where large evacuations are required;
for it will inviscerate itself thro' the intestines,
bringing with it only the more fluid parts,
and leaving the indurated faeces. — Were I
to resort to it in such cases, I would give it
some hours after a dose of Calomel.

It is said to pass thro' without being changed
and to relieve the irritation in the intestines;
but this I much doubt. —

In Dysentery; in its first stages I prefer the
Cath. as Calomel & Rhubarb, but in the ad-
vanced stages I am fond of the following:

R. ol. Ricini ℥i — Gum Arabic ℥ij — Sugar ℥i.
Laud. qtt℥i — Mintwater ℥ij — M. This
forms the oleaginous mixture, and the
dose is ℥ss every one or two hours. This
preparation remains in the stomach
better than pure oil. —

From its mildness, oil is much used in

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in hemorrhoids, hemorrhages, calculus, parturient ^{69.}
women, & is particularly adapted to children. —
The dose of oil is ℥i. for an adult, & for the youngest
children a teaspfll. — It is usually taken in
ardent spirits, but this is obviously improper in
many cases; the French take it in Coffee. In
Senna tea in the proportion of 3 parts of tea to one
of oil, it is less nauseous. — When no better way
is convenient, it may be taken in Sugar & wa-
ter, washing the mouth before & after with bran-
dy or vinegar; Or, in form of an emulsion
with mint water, Sugar &c. —

Caster oil has acquired some reputation as
an anthelmintic, but I do not know that
it has any other property, than as a purgative.
It answers very well after a dose of Calomel.

When the ol. Ric. cannot be obtained, an ex-
traction of the seeds of the *Palmachristi* is an excel-
lent substitute — but if the seeds are rancid,
it is a very unpleasant & harsh medicine.

Oleum Olivarum is a mild, quick &
certain laxative, & has all the properties of
the preceding besides being much less of-
fensive. There are two cases in which it is
particularly useful, in certain poisons, & in
Colic affections of children. I have given
a teaspfll every hour to very young children —
it is too much neglected. —

I now proceed to some more ^{powerful} Cath. ⁶⁹
Senna — the leaves of the *Cassia Senna*, which
grows in Perria, Turkey &c. — it was once brought
exclusively from Alexandria, & was hence called
Senna Alexandrina; the leaves are smooth, bitter,
pointed &c. — The Italian & that growing in

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Jamaica is less powerful; the leaves are less poin-
ted, and mixed with sticky stems. The Barbary
Senna is of the same inferior quality. ~~Its~~
Its gripping effect may be diminished by Carni-
natives or Coriander, &c & more effectually by Gine-
ger or Cardamom. As it depends on the resin,
it is prevented by infusion in water. It is
now never employed in substance, but yields
its power very readily to water, but the water
should not be allowed to boil, for the active parts
are volatile. Senna is hardly ever used
alone, but is combined with Mannna, Salt
or Cream of tartar. Thus, R. Fol. Senna. & Sup-
: tart. potash. (or Sulph. Soda) aa ʒss. in a pint of
water; let them simmer till reduced to 1/3,
& then add Sugar &c - the Sugar has all the
properties of Mannna & is equally laxative.
Infusion of Senna forms an excellent enema.

Cassia Marylandica possesses nearly the
same properties as the *Cassia Senna*, & the
dose is about the same ^{indigenous cath.}

There are many others, but for these I will
refer you to Orsdon's work, & will only men-
tion two of them.

The *Podophyllum peltatum* or May apple,
called also Mandrake, *Spiceacuanha* &c - The fruit
is esculent & pleasant, the leaves are poisonous,
and the root cathartic. Dose X to XX grains. -
it may be combined with Calomel, X & X grains.
It is said to have the property of dark in intensity,
but I know nothing of it. The time to collect
it is in the fall, as it is inert in the Spring.

Of all ^{our} indigenous cathartics, the extract of
the inner bark of the *Juglans Cinerea*, or
butternut is far the most valuable.

- The inhabitants of the Northern & Eastern States require less doses than the Southerners - this applies to all medicines, & the doses are $\frac{1}{3}$ less. -
- + Dr Physick says that Jalap alone is very apt to nauseate & be thrown up, & surely this combination will purge. Ed
- ++ Active purges are injurious in Hydrothorax & in all diseases of the chest. - & in the secondary stages of hydrocephalus they can be of no service. -
See above. p. 60.

The dose of this extract is $\times \times$ grains, which purge actively - Its efficacy is increased by combination with Calomel, \times grs of each. It is strongest when collected about the month of June.

As very analogous to these, & particularly to the *Pod. pelt.* I will here mention Jalap. It is the root of the *Convolvulus Jalapa*, which grows in Mexico, & Jalapa, whence its name, in Vera Cruz, Florida, & it is said, in Georgia &c.

The root is employed; it has but little smell, & taste, is of a striated appearance, & affects the ^{larynx} ~~throat~~ with a slight sense of astringency. It is a very powerful Cathartic, but its power is said to reside in the resin, the gum being merely diuretic; recent experiments however show that this distinction is not correct.

Triturated with the Crystals of tartar, small doses will operate, & no griping is produced; Even combined with Cream of tart. without irritation I have found these effects from the union of the two. - Cream of tartar \mathfrak{z} ss with 15 grains of Jalap proves an excellent Cathartic in Dropsy. & Jalap & Calomel aa \times grs is a powerful purge, particularly recommended in the commencement of bilious fevers.

The median dose of Jalap alone is from 40 to 20 grs. Cullen recommends it triturated with sugar for Children. - Dr. Aikin says grs $\times \vee$. Jalap with 2 or 3 of Ipecac has double the Cathartic effect of Jalap alone, & does not gripe -

As a hydragogue, Jalap has long been known, & was termed the "Panacea Hydropea", & I believe it is entitled to the praises bestowed on it; but is applicable only to Anasarca, ascites & earliest stages of Hydrocephalus. -

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Rhubarb is obtained from the Rheum palmatum, the root of which is used. - The Turkey Rhubarb is the best, & comes to us in small pieces with perforations in their centers, of a bright yellow colour, striated with white, aromatic, & of a styptic taste. That from China comes in larger masses, is less aromatic and more cylin-
-drical. Rhubarb is a mild cathartic and an astringent, thus giving tone to the stomach &c at the same time that it evacuates the contents of the alimentary canal. -

Combined with Calomel it forms the best Cathartic in the early stages of Dysentery, & after it has purged actively, I have used with great benefit the following Rx. Pulv. Rhei gr. xxx. Specac. gr. x. - Op. gr. ii. - St. Cinnamon. gr. v. in 4 fl. pill. x. - S. T. q. S. h. - this will often relieve the tenesmus and griping.

In Diarrhoea Rhubarb has long been famous, first as a cath. then as a tonic, particularly if combined with opium & Specac. -

It is well adapted to ^{these} chronic diseases, Hypo-
-chondriasis, hysteria, Dyspepsia &c. and joined with Calomel, to all bilious disease.

I do not know that it is at all inferior to Jalap, except that it remains longer before it operates. - When combined with

the neutral salt, a decomposition takes place, & the product proves a mild laxative. All that we know concerning this decomposition is that the Rhubarb becomes red.

In Jamdier, it is celebrated, but its efficacy

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is very much increased by the addition of 1℔.
Calomel, and after the lymphatic system
has been strongly excited by this combination,
I give equal parts of Rhubarb. aloes & soap,
in such quantities as to keep the bowels open.

As its Colour is detected in the urine,
it has been supposed to be diuretic, but I doubt
whether it has this property.

For complaints of Children it is an excellent
remedy; for a child 1 year old, gr. x. is the dose,
for children in the week gr. iij or iv. but in so
young Children oil is best. — Dose for an adult ʒi. ʒi.
As anthelmintic it is said to have some
virtue, but I suspect it has no other than
its purgative power.

It yields its virtue to alcohol, wine
or water, — & a common family medicine
the Spiced Rhubarb is prepared in this way.

The Spirituous. — R. Rhubarb ʒi — Cinnamon ʒij
Nutmeg ʒi — Cloves ʒss — White Sugar ʒij. Spirit
of Cinnamon ℥ij — This is to be placed in a

dish, & the spirit burnt away. — dose half
a wineglassfull. for an adult. & a ʒss for a

Child. — The Aqueous; R. Rhub. Cinnamon,
& mace, aa ʒij — Cut them up & put them into
a pint of water, & simmer down to 1/3. &
then add Sugar — & Spirit enough to keep
it from fermenting. — This is excellent for
Children, & in Dyspepsia &c. —

Of late Rhubarb has been used externally
in ulcers; when there are very irritable sores
is joined with it, p. o. — Rhubarb & Specac
p. o. are said to be a cure for warts. —

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Rhubarb is now cultivated in this country, & now 74.
does not appear inferior to the Turkey R.^b but
care is necessary in preparing it. & the plant
should be at least 6 years old, before the root
is taken; if 12, the root will be much better.

Closely allied to Rhubarb is Aloes, which
is the inspissated juice of the aloe perfoliata,
which grows in the South of Europe, in Asia &c.
There are three varieties, the Socotrine, the
hepatic or Barbadoes, & the Caballine aloes.

It is a warm purgative, and passes through
the stomach and small intestines without
making much impression upon them, &
acts only on the large ones, & especially the Rectum.
hence it is apt to produce hemorrhoids & ought
never to be used in this, or any other disease
of the Rectum. from its action on this part,
it has been used as an Emmenagogue, and
is proscribed in pregnancy. — The old phys-
icians supposed it to have the properties of
bile, & to be useful in obstructions of the ducts
by supplying the place of this fluid.

D Cullen says 2 or 3 grs will produce as much
effect as 15 or 20, but this is not true. 2 or 3 grs
will gently open the bowels, but larger doses
produce griping &c. — median dose from 2 to 5 grs.

D Cullen says that aloes ought never to be
combined with any other purgatives; but
this is mere speculation. In fact, except in
obstinate Constipation, aloes is seldom
used alone; its utility is much increased by
union with Colamel, Gamboge, Scammony,
or Rhubarb. — It forms the basis of most

Stalagmitis Gambogioides.

Gambogioides

of our empyrical Cathars as Anderson's Pills, Lee's 75.
antibilious pills, Hierac picra so much used as Emmenag,
Warner's Cordial, used in gout, &c &c

As it is very bitter, & remains long in the in-
-testing before it operates, it is a good antheimetic.

The best remedy for Ascarides is an enema of ji
of Aloe in half pint of water. — It is used in al-
-col for checking hemorrhages, & as a wash for
indolent ulcers.

I was induced sometime ago to make trial of
the inspissated bile of an ox — 3o℥ grs t.d. in pills,
and never had so prompt an operation from
any other medicine. Richter, I have since found,
recommends it highly. it is admirably calculated
to relieve Costiveness.

Scammony — a milky exudation from the
convolvulus Scammonia, which by inspissation
becomes concrete. That from Aleppo is the best, &
is of a shining black colour. it consists of a
gum & a resin, has a pleasant smell, & a stiff-
-lic taste — It has been much used as a cathartic,
and externally for herpes & tumours. Dose as
a cath. from 3 to 4 grains — But it is so violent
that it is not used except in combination.
It is said to grow in Suffolk county, N. Jersey. —

Gamboge, a gummy resinous concrete, said to
be derived from the Coddampulli, but others deny
it; — It derives its name from the place, where
we obtain it; it is of a deep yellow colour; & a violent
Cathartic & Emetic; hence it was used in the
Yellow Fever by Dr Rush & others, in order to produce
an artificial Cholera morbus, the disease
being at one time supposed to be merely
bilious, but since found to be a gastric affection.

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3 or 4 grs. of gamboge with 4 of calomel make a 76.
very powerful & efficacious cath. - it is also used
in combination with the sup. tart. potash -

It has been recommended in Dropsy. Also in
Tania, where 15 grains are ordered in the morning,
and if the worm do not appear in a few hours
after, the dose is to be repeated - but this practice
must be extremely hazardous.

Colocynthis - the *Cucumis Colocynthis* - the
produce of Syria - it resembles a gourd - it is
intensely bitter, & a severely drastic purge.
Dose from 3 to 6 grains. it is generally employed
in combination with others as Calomel, Rhubarb
- &c. to hasten their operation; in mania,
apoplexy &c. An infusion of it is said to
be anthelmintic, but is too violent for children.

Elatium, the *Cucumis agrestis* of Linnaeus,
the *Momordica Elatium* of others - commonly called
the wild cucumber. It is the most violent
cathartic, the Mat. Med. affords, & sometimes
produces bloody evacuations. - But it is slow
in its operation, unless promoted by others.
It is often emetic - it stimulates the whole
system, & raises the pulse very much, producing
as it were, an artificial fever. - Dose from $\frac{1}{2}$ gr.
to gr. ij. - it was formerly much used, but now
not at all. -

Mineral Cathartics. There are but few, & these, with some exceptions, are but of little value. The most important of all the mineral Cath^{cs} is the Submuriat of Mercury or Calomel, which is applicable to almost all diseases. Where purging is required, there is hardly a case, in which it may not be given either alone or in Combination. - It has the singular property of rendering milder the drastic Cath^{cs}, & of giving force to weaker ones. It is destitute of taste, & minute in bulk; hence it is peculiarly adapted to Children. - There is a popular prejudice against its use for Children, but I am convinced, that its operation on them is milder than on Adults. - However I never give it, until the infant is old enough to distinguish tastes, & to resist what is nauseous. - \times or $\times \times$ grs for an adult, & not less than gr vj . for a child over two years of age. Large doses create less nausea, pain or griping, than smaller ones. -

Sulphur. a simple combustible substance often found native. The preparations of Sulphur are numerous, but the best forms of using it are in its native state, or the Flowers of Sulphur. Dose of the Flowers of Sulphur Zijij . Like aloes it acts on the large intestines, but being mild, allays irritation, & hence is used in hæmorrhoidal affections. - It is often used combined with Cream of tartar in form of an electuary. -

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Sulphur is much used in Certiveneſs; & was once
much eſteemed in Dysentery, but is now laid
aſide in this diſeaſe. I have ſeen it very uſe-
ful in Colic caſes, Connected with Gout or Rheu-
matism.

In Cutaneous diſeaſe, it is uſed internally,
and externally; thus in *ſcor. ung.* Sulphur is
rubbed on, & the powder is taken in purgative doſe.
but as the ung.ⁿ produces a very unpleaſant odour,
other applications have been ſubſtituted - Sul-
phuric acid $\mathfrak{z}\mathfrak{j}$. with lard . . makes a good ointment
or with ſeveral $\mathfrak{z}\mathfrak{j}$ s of water, a waſh, equally as effi-
cacious as the ung. Sulphuris, & without ſmell.

In *tinca Capitis*, the beſt unguent I have
uſed is Sulphur $\mathfrak{z}\mathfrak{j}$ - Lard $\mathfrak{z}\mathfrak{j}$ - Sal ammoniac $\mathfrak{z}\mathfrak{j}$.
n. *ſ. ung.* - - - Butter ſaturated with Salt
is alſo an excellent remedy for *tinca Capitis*.

Rozenſtein ſays that in repelled eruptions
nothing is ſo effectual in reſtoring the erup-
tion as Sulphur. - Thus it is uſed in Epilepsy
from this cauſe. - - In Gouty and Rheu-
matic affections of the inteſtines, it is uſeful
both as a purgative & a diaphoretic.

It was once a favourite remedy in Cough,
Catarrhs, perſuſis, pulmonary Conſumptions,
& was called the "*Anima pulmonum*". I can-
not ſay whether there is any truth in this,
as it is not ſupported by any very weighty
authority.

In Cramps, grasping a roll of Sulphur
has been recommended; I have ſucceeded
by pads of Sulphur worn on the part, & the Hor.
Sulph. given internally.

In Paralyſis Sulphur has been recommended,
indeed I now rely more on ſpurges in the

(Dr. Physick prefers giving it in milk, & thinks it admirably adapted to infants of children - E.B.)

15 or 20 grs to infant every hour.
& Land ptij half hour before Harogym.
(See Bark) D.P.

treatment of this disease than on any other med. 19.
icines, but I use more active ones than Sulphur.
Sulphur has been used to correct inordinate
mercurial action, but I think I have found
it wholly inert in this respect.

It has been used in intermittents & Granger
in Batavia cured intermittents by giving
℥ij - in a wine glass of brandy an hour before
the expected paroxysm. - I have used it with
success after bark & arsenic have failed, & think
it an important acquisition in treatment of intermittents.

Nearly related to Sulphur is Carbon.
it is an antiseptic - but is not much used
except externally - Some years ago gave
it internally for an ulcerated mouth, in
which I suspected the disease to arise from
the stomach; the fetor of the breath was
immediately destroyed, & a cure soon performed.
A tablespoon twice a day is mildly laxative
and at the same time tonic; hence it is
used in Dyspepsia, Costiveness, acidity, py-
rosis, hysteria &c. & may it not be of use
in the low stages of Typhus? - It is remarkable
that while using Carbon, the faeces have no
fetid smell, & the odour of the breath is also
corrected. -

Wagneria was introduced into medicine
by the Count de Parma in Rome. it is found
in Nature in form of Carbonate, but this
creates flatulency, & therefore the Calcined
is preferred. This is particularly the case in
children during the month, for I have
seen the medicine, thro' neglect of this cere-
-tion, aggravate the disease, for which it was given.

Equal parts of Calcined magnesia & Sac Sulphuris from 80.
a powerful Cathartic, & an excellent remedy in
bilious Complaints; Dose of this mixture a Teaspoon.

During the first two or 3 months after birth,
children are very subject to gripings & nothing
relieves them more effectually than this
preparation; R. Calcined magnesia ℥ss. Rhubarb ℥ss.
Ol. Anis. q. iv. Laudanum ℥. iv. - Sugar ℥i. Water ℥ss.
M.

This is an excellent Carminative. -
Of the Lithontripic powers of magnesia, hereafter.

The Neutral Salts are intermediates bet-
ween laxatives and purgatives. As they ope-
rate copiously without exciting much irritation,
they are very useful in the phlogistic diathesis,
but if more active purges are required, these
must yield to Calomel &c. but after the more
powerful ones have been used, these will serve
to keep the bowels open, & if combined with
Antimonials, will prove diaphoretic.

Glauber salts or Sulph. Soda is most used.
Dose ℥i - for a child 3 or 4 years old ℥ss. - It is
often combined with cream of tartar &c.

As a Febrifuge the following R. is a good one:
Glaub. Salt ℥ij - Emet. Tartar ℥ij -
Lemon juice or vinegar ℥i - Water ℥viij -
M. ℥ss. q. s. h. - this opens the bowels & is diapho-
retic. -

Sulphate of Magnesia or Epsom salts.
Dose ℥i. - This has no advantage over the
last, except being more apt to be retained
on the stomach. - hence it has been
recom. in Colica plectonica. -

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Phosphate of Soda - This is a newly intro- 81.
duced medicine - the dose the same. - it is
not so unpleasant as the 2 last, but I think
it is not so active - it produces an intolerable
thirst. -

Rochelle salt - Tartrate of potash & soda made
by adding soda to the solution of the super tartrate
of potash. - it is a pleasant medicine; the
dose is the same - $\mathfrak{z}i$ -

I have now finished the Cathartics, tho'
I have omitted many of the less powerful
ones. -

Lecture 13th December 5th 1814. 82.

Diuretics. The urinary discharge is increased in two ways; 1st. by increasing the secretory action of the kidneys, & the 2^d by exciting the absorbent vessels. - hence diuretics are of two kinds, as they produce the one or other of these effects; both however act primarily on the Stomach. - The action of diuretics is much influenced by the state of the skin, as the secretion of the kidneys & that on the surface are in an inverse ratio; thus Cold increases the power of diuretics. - Hence in giving these remedies, heat should be avoided, and whatever may tend to produce diaphoresis; the patient is to be kept out of bed, & if admissible, cold is to be applied to the surface. - Thus the most violent Stranguary will often yield to cold applied to the pubis, to cold pediluvium, or walking barefoot on cold marble.

Diluent drinks also increase the diuresis; but in some cases, it has been doubted, whether these means were proper; as in Dropsy; apprehensive that they would increase the serous effusion, physicians formerly forbade all drinks; & cases are recorded of success from this abstinence; but they are few, & the general failure of this plan has caused it to be laid aside. - It is a most painful task to resist the cravings of thirst, & the theoretical views, on which the practice was founded, appear to be false. Thus 2^d Cullen says, that abstinence from drink, by diminishing the action of the

kidneys, allows them to become torpid and inactive. - 83.
The modern practice is to give large quantities
of diluent drinks. - Water, impregnated with some
acid, as a weak solution of sulphuric potash. - By
the use of these diluents alone, Dropsies have
been cured, in proof of which we have the
authority of Sir George Baker (who introduced the
the practice) of Sir Francis Milnarth, & of Dr Lullens,
but the fact is so well established, that it would
be useless to defend it here. -

Diuretics display their best powers in all
the forms of Dropsy, but how they act, has
been a subject of dispute; whether by increa-
sing absorption, or exciting the action of the
kidneys. I think there are two classes,
some stimulating the absorbents, & the
others the kidneys to action; some object to
this, that the water cannot be evacuated
from the cavities merely by an increased
action of the kidneys; but I maintain that
whatever tends to diminish the force of
the circulation, increases the absorbent
action, & thus the diuretics acting on the
kidneys, indirectly influence the absorbents.

Besides Dropsy, Diuretics are used in
all urinary diseases; in Nephritis
whether from Calculus or other causes,
in partial or total suppression, in rim-
-ent gonorrhoea &c. -

Also in all diseases of the lungs, in Car-
-carks, Asthma, Phthisis, & all chronic
affections of the pulmonary organs; In oedema

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morbis pectoris, ad urinam spectandum" was for: 34.
merely the adage, but this practice is not now so general. Digitalis is indeed used in these diseases, but not with a view to its diuretic effects. —

The number of diuretics is immense, but few of them are powerful, & all are uncertain; their uncertainty may be owing to a want of attention in administering them, or to their being universally endowed with other powers; thus if the cathartic or diaphoretic power should overbalance the diuretic, the urinary discharge is lessened, being in an inverse ratio with that from the skin or bowels. —

In administering diuretics, attention must be paid to the state of the system, as some of them increase, and others diminish action. — There are 3 sets of them; the 1st are the cooling relaxative, the 2^d the stimulating, & the 3^d the narcotic or sedative. —

Of the 1st class, the neutral salts, which are all diuretic, but none very remarkably so except the Supertartrate of potash; a very valuable medicine in dropsy, but is peculiarly adapted to Ascites & Anasarca, & to febrile dropsies. —

It is best when combined with Jalap. — Dr Hume & Dr Ferriar say that its hydropic power is equal & in some cases superior to that of Digitalis; but the two medicines are adapted to very different cases, & cannot, I think, be compared together. — It certainly often reduces the dropsical swelling very suddenly, & in those cases evacuates large quantities of water by stool, at the same time increasing the action of the urinary organs.

When given dissolved in a large quantity of water, it is merely diuretic, but if in small quantity

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of fluid, or combined with some other purgative, 82.
it acts as a hydrogogue cathartic. — This last mode
is the best, and during its operation, abstinence
from drink should be prescribed: The dose as
diuretic merely is $\mathfrak{z}\text{i}$ in a quart of water daily;
Puracath^c — $\mathfrak{z}\text{i}$ or $\mathfrak{z}\text{ij}$ with Jalap grs xx . —

Potash either pure or in the state of Carbonate.
The ashes of certain plants are much used in
some countries; $\mathfrak{z}\text{ss}$ of Carb. potash. in water
is actively diuretic, and sometimes Cathartic.
Dr Cullen (who is a sceptic with regard to medi-
cines) is in favour of this, & admits that he
has found it eminently diuretic, but adds
that it has sometimes disappointed him; but
this may be said of every other medicine.
The cases to which potash is adapted are those accom-
panied with dyspepsia & the evolution of an acid
in the stomach — it corrects this acid, but its effi-
cacy in curing the disease is much increased
by the addition of Gentian, Columbo, or other bitters.

Among the milder diuretics is the Spiritus
nitri dulcis, or Spiritus aetheris nitrosi of the Dispensatory.
It is a solution of ^{nitric ether} alcohol in alcohol. It often
proves powerfully diuretic, but the common
dose of gtt. xxx is too small; $\mathfrak{z}\text{ss}$ may be given to
an adult — It is particularly adapted to chil-
dren, not only in Dropsies, but also in Stranguary,
Dysuria &c. — for an infant 8 or 10 days old, gtt. viij or x .
for a child one year old gtt. xxx . —

The application of a bladder of warm
water to the pubes is an excellent remedy in
the Stranguary of children, which is a common
disease. — Also cataplasms of roasted onion
or garlic to the pubes. —

Among the milder diuretics is the apium pectinatum or parsley. Every part of the plant may be used, but I have only employed the root, from which I have derived some advantage in Dropsy. It was a favourite remedy with Dr. Rush; Dr. Caldwell cured a case of ascites by it, which had resisted the usual remedies, & tapping had been resorted to. But it is more applicable to the common cases of Suppression of urine, & to relieve the Strangury from blisters; for these purposes it is a very valuable medicine. I give it in a strong infusion to an adult in the dose of a wineglassful & in proportion for child.

We now proceed to the Stimulating diuretics, and at their head place the Linctura Cantharidum. This is given in very different cases, & ^{with} opposite indications; I have given it to restrain a great flow of urine, and to increase the action of the kidneys. If it be given in small doses as ℥ss. viij. or x. in plethoric habits, or where action is pretty high, it produces Strangury; but ℥ss in a feeble system is diuretic. In a case of atonic Dropsy, I gave ℥ij a day & produced a most copious flow of urine. I am not alone in this practice, tho' many entertain very different views; Dr. Cullen mistrusts its diuretic powers.

It has been used in Paralysis of the bladder, in Gleet, & protracted gonorrhoea &c. (See Robertson) In Leucorrhoea it is highly extolled by Dr. Robertson, but Dr. James & myself have tried it in large & small doses, but have failed. Dose ℥ss. xii to xv. & increase to ℥ss. &c. of the Pulv. Canth. gr. iij.

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Next to Coutharides is the Plum Terebint. or 87.
Spts of Turpentine. It has not however been
used with much success in Dropsy - gtt. XXX.
f. d. are diuretic, but larger doses go off by Stool.

Nearly allied to this is the Balsam Copaiva,
an exudation from the *Copaifera officinalis*.
It is not much used in Dropsy, but in Me-
phritis, Leucorrhoea, gleet &c it is much em-
ployed, tho' I am not very fond of it. —

In gonorrhoea I give it in the very commen-
-ment & during the inflam^d stage, not regarding
the symptoms of inflam^d viz. Ardor urinae, thro-
-de &c, all of which it relieves - the use of it
in gonorrhoea is not a new practice, but it
was usual to give it in small doses & only in
the Secondary stage. The dose I use is gr. X. 2
morning and night in wine. A cure is
effected in 3 or 4 days, & sometimes sooner.

One caution however is necessary, very
low living & absolute rest are essentially
 requisite for a speedy cure. — There is but
one inconvenience in the use of it, which
is that it purges very actively, & the efficacy is
lost or much lessened; opium will prevent
this, & if not, it must be omitted for 2 or 3 days.

I sometimes use it in this form. R. Bals. Cop-
-aiva ℥ss. — G. Arabic ℥ij — Dulc. Spts of Nitro ℥ij —
Water ℥iv. — M. — If it purges, add Laudanum ℥i —
and if it is offensive to the Stomach add Comp.
Spts of lavender ℥i or ℥ij — n. (℥ss. q. t. h.)

This plan is more convenient, than infer-
-tions, and produces no stricture, nor swollen
testicle, & leaves no gleet behind it, & is more
prompt: As to its mod. operandi, I know nothing.
One would not suppose that so stimulating

an article would allay heat, pain &c as this al- 88-
ways does; but no mode of reasoning is more
fallacious than this; for who would suppose
the *opt. Turp.* would be applicable to burns?

You will be often disappointed on account of
the inferior quality of the *B. Cop.* in our shops; as
it is little more than *opt. Terebinth.*

Polygala Senega - is an active and diffusible
stimulus, and acts on most of the secretory
organs; thus it is expectorant, sialagogue, em-
menagogue, diuretic & diaphoretic. - The root
only is used - As a diuretic it has long been
known, and D'Sennant, who first introduced
it, knew only its diuretic power. - It was at
one time highly eulogized in Dropsies;
thus Sir Francis Wilmot speaks of it as one
of our best med.^{ies} - I have never seen
any remarkable diuretic effects from it;
indeed it had lost its reputation, but is
now regaining it. - I suspect it has been
too promiscuously employed; and I am
inclined to think it best adapted to those
cases of universal Dropsy from weakness
of the absorbents and connected with a
cachectic state of the system. - Its efficacy
on the lymphatic system is promoted by
its union with Calomel.

Dose is gr^{ss} X or XX - - The 'D'Sennant gave it to the
extent of gr^{ss} XXX - -

The *Senega* is also used in Cynanch Tra-
chealis; As an antidote for the bite of the Rat-
-the-snake (for which it was introduced by D'Sennant)
it has lost its reputation.
It is used as an expectorant in Pneumonia,

- 2 grains of the dried Squill is equal to X of the recent.
5 grains is the Emetic dose. — See above, page 34. —

particularly in the *Pn. Senilis*; also in the last 89.
remains of a Pleurisy &c. Combined with
Savine, in Chronic Rheumatism.

Lobelia Syphilitica is also a diuretic - it
creates nausea & vomiting &c. - Dr Pearson
found it wholly inadequate to the cure of sy-
philis; but as a diuretic it may probably
be of service in Gonorrhoea.

But a more important diuretic is the
Scilla maritima, which is also expectorant
and emetic. (See under head of *veget. Emetics*) -
p. 34.

It is eminently useful in ascites and ana-
sarca; tho' from my own experience I should
say it was more so in Hydrothorax. My
mode of giving it is 2 grs of dried Squill, with
1 gr. Calomel in pills - morning & night, or
oftener. Dr Cullen added some neutral
salt as nitre, supposing that this would
convey the squill more directly to the urinary
organs; but this is a mere notion. If the
Calomel purge, add opium - The mouth
being affected by the Calomel is an auspicious
symptom, particularly in Hydrothorax.
The squill lowers the pulse and diminishes
arterial action more than anything else,
except *U.s.*, more even than *Digitalis*.

It is somet. combined with *Corros. Sul.* &
S. min. but Calomel is equally good.

Dr Home gave squill and nitre a grx
daily, to excite vomiting, and cordials
at night. But Dr Cullen, a cotemporary
and rival of Dr Home, loudly condemns
this practice, and contends that the

diuretic effect is lost by vomiting or purging, 90.
because ^{the medicine} ~~it~~ is thus prevented from entering the
circulation. he therefore recommends such
doses as will produce no effect on the stomach.
I suspect the truth lies between them, &
that nauseating doses are preferable.
Squill acts particularly on the bronchial glands,
& is therefore recommended in Asthma.

Helleborus viridis - Dr Ferriar speaks highly
of the diuretic power of Bacher's tonic pills
in Dropsies - (See Med. hist & reflect.)

Lecture 17th December 8th 1814 91.

We come now to the 3^d class of diuretics, viz. the narcotics; the most interesting of which is *Digitalis*. The *Digitalis purpurea* is the one in common use, but the *D. lutea* is said to be stronger & to possess all the valuable properties of the former, without its injurious ones.

The *Digit* is not a native, but grows well in this country; it is a luxuriant plant, 2 or 3 feet high. The blossoms appear on the second year, and are purple, and on their inside elegantly mottled. The leaves are used, and should be gathered when the blossoms are just appearing; the largest and deepest coloured are to be chosen, and to be dried in a warm room, & in a current of air - when crisped they are to be pulverized according to Dr. ..., & kept from the light; but the leaves are generally kept whole, & I think this is the best way to preserve their strength.

When given in a full dose, the *Digitalis* exhausts the powers of the body, lowers the pulse from 75 to 40 or even 30. & the pulse becomes small, tremulous and vibrating. Sickness, anxiety, vertigo, dimness of sight succeed - If the dose be very large, puking is excited, & a greater degree of vertigo or Coma & a little more puts an end to life. Its effects however are not uniform; the pulse sometimes remains full, & is irregular, giving the sensation of jerking or convulsive action. - Sometimes the largest dose will not prove Emetic -

In some, a considerable length of time will elapse without its producing any apparent effect; and then suddenly its ~~power~~ ^{effects} are developed & send so much so as to occasion some alarm for the life of the patient; & tho' it be discontinued, its effects will remain for several days, being in this respect analogous to Mercury. — This is not a very frequent occurrence, but sufficiently so to render us cautious in the use of the med.

The position of the body has some influence over the effects of this medicine. This was first observed in the Edinburgh Journal, in the first case which attracted notice to this circumstance, the pulse was, in the erect posture, 100. — sitting, 75. — and in the recumbent, 40. Experiments have been repeated, & ^{are} recorded by Dr Hamilton & Dr Beddoes, which prove that this idiosyncrasy is not uncommon.

It is disputed whether it be a stimulant or purely sedative. I have placed it among the latter, but its 1st effect is certainly stimulant; this however is very transient, & the pulse is soon lowered, both in strength & frequency, and languor & debility soon follow.

(Experiments of Dr Moore, in his inaugural thesis, and confirmed by Dr Saunders of Edinburgh.) These show that its first effect is stimulant, but they only regard the arterial system, & it is to be regretted, that the action of Digitalis on other parts, has not been equally enquired into.

By botanical affinity, it is allied to the Stramonium, Nicotiana, Solanum, Hyoscyamus, and other narcotics of the most depressing kind, and accordingly it also diminishes the mobility of the system. To this property, and to its diuretic power must be attributed all its effects.

- Dr. Hygienist thinks it safer to begin by 10 grs., for 10 grs. would almost kill him., as is evident from the effect, which 10 grs. of the Tinct. taken at 3 intervals, had on him.

Digitalis is given either in powder, Tincture &c.
or Infusion. The infusion is made thus: of the
dried leaves \mathfrak{zj} . Water \mathfrak{zviij} - reduce by simmering
to \mathfrak{zviij} . & Strain - then add \mathfrak{zj} . of some aromatic
Spirit. dose to an adult, \mathfrak{zss} . t. d. - The powder
is given in doses of 1 grain morning & night. also
given in pills, alone or with some aromatic.

The Tincture according to D^r Darwin is made
by digesting \mathfrak{zj} of dried leaves coarsely powdered,
in \mathfrak{zviij} of proof spirit for several days. this is the
saturated tincture & the dose is about $\mathfrak{gt. xv}$. but is
often increased much further. - The other for-
mula is only \mathfrak{zj} of leaves to \mathfrak{zviij} spirit. - If the
leaves be very good, this will be nearly a satu-
rated solution; of course the dose will still be
 $\mathfrak{xv. \mathfrak{gtt.}}$ which maybe increased, if it is found
to be weak. -

Doct. Withering, who first introduced this
medicine, is of opinion that when the
diuretic effects are desired, as in Dropsy, the
Infusion is to be preferred; & where the narcotic
power is requisite, as in Pulm. Consumption the
powder or T. is preferable. - But in my
opinion, this distinction is frivolous.
It is said also, that the powder is more apt to
produce noxious effects, because the repeated
doses are accumulated, not being carried off
by diuresis; but this is mere Conjecture.

In the exhibition of this medicine, the
dose is to be gradually increased, but with
Caution, and the pulse must be carefully
watched, as its action is suspended for a time
and then becomes violent - The dose may
be augmented $\frac{1}{4}$ every other day, and repea-
ted two or three times a day: proceeding
thus, the patient will soon take \mathfrak{xij} times his 1st dose;

- Dr. Beddoes prefers opium, to counteract
the effects of Digitalis.

I have given as much as ʒij of the Sat? Tinct in 94.
Twenty four hours.

Notwithstanding all our caution, its violent
effects will sometimes appear, & remedies are
necessary to counteract them. If the dose has
just been taken, an emetic will be proper, but
when the symptoms become alarming, ether,
- vol. alkali & cordials are necessary - sinapism
to the ankles, & frictions with hot brandy &c.

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Application of Digitalis to the cure of diseases.

At one time this medicine was extolled in the widest range of diseases and at another almost discarded from the materia medica. This fluctuation still exists and arises from its being given in forms of disease, to which it is totally inapplicable; or from its being rendered inert by some fault in its preparation.

Its efficacy in Dropsy is least disputed. Dr Withering, who first introduced it, asserts, that so far as the cure depends on the evacuation of water, so far Digitalis may be depended on. Darwin, Sir George Baker, & Percival also extol it. It was Dr Darwin's opinion, that it was best calculated for Dropsies arising from intemperance and debauch. He gave it combined with the bark, & a grain of opium at night; this plan he continued for weeks without intermission. Quinine is an excellent remedy for the diseases produced by drunkenness, & no doubt Dr D's practice was a good one.

Dr Ferriar of Manchester has also used it very considerably but his result is not so flattering. In 29 cases treated by Digitalis, 11 were cured, 7 died, 2 were relieved, & 9 remained stationary: whereas out of 43 Cases treated by Cream of tartar, 33 were cured. — Dr Currie condemns it, on the ground that dropsies are caused by debility & therefore this must increase the disease. The weight of authority however is decidedly in its favour; indeed if there be any fact in medicine so well established as to be above cavil, it is the superior efficacy of Digitalis in Dropsy.

90.
But the state of the system must be attended to - when a general strength, & a high degree of arterial action exist, Digitalis will be injurious, unless preceded by P.S. &c. Thus Dr. Withering says, he failed in persons of tense fibre and great natural strength; but was uniformly successful in weak persons, with pale countenances, low pulse &c. Hence he recommends Squills and purgative doses of the crystals of tartar, to reduce & prepare the system for Digitalis.

I think it equally useful in all the forms of Dropsy; in Ascites, Anasarca & Hydrothorax; the general opinion is that it is best adapted to Hydrothorax, & not to Ascites; but I am very certain I have had less success in hydrothorax, than in any other form, & now seldom use Digit. in it, but trust to Squills & Calomel.

Dr. Hamilton, author of a Treatise on Digitalis, is directly opposed to me, and asserts, that he never saw a case of Hydrothorax, however advanced or desperate, which was not speedily relieved by Digitalis. It would be well for humanity, if one half of this eulogium were true.

In Hydrocephalus, Digitalis has been given but with little success; if it can be useful, it must be in union with Calomel.

But in the Anasarca consequent to Scarlatina, which is very obstinate and occasionally dangerous, Digitalis is eminently useful - As it proceeds from debility, tonics are generally used, but are not to be compared with Digitalis in efficacy.

The same applies to Anasarca following the Erysipelas. -

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91.
Digitalis has been said to be occasionally useful in the diseases of the urinary organs. Dr Withering recommends it, but I doubt its efficacy very much. I think it has but little relation to the kidneys & acts exclusively on the lymphatics; thus it never promotes the urinary discharge, unless where dropsical effusions exist; hence it never proves diuretic when given in Pulmonary Consumption. -

In some cases, its only good effect seems to be diminishing arterial action. Thus Dr Ferriar^{xxxx} & Dr Currie says, it acts like a charm in allaying arterial action, & therefore is a most valuable acquisition, being often a substitute for the lancet & sometimes highly superior to it. -

It is said to be of use in all hemorrhages, but particularly in hemoptysis & menorrhagia. Dr Ferriar relates many cases of the former treated successfully by *Digitalis*. also Dr Currie, Dr Drake. But I am not a convert to the propriety of this practice and can never allow it to take the place of *℞*. in active hemorrhages. Yet there are cases to which *Digitalis* is particularly adapted.

In the active stage of hemi^m. the pulse is full & hard, & *℞*. is indispensable; but after the hem. has continued some time, & all inflamm^y symptoms have subsided, the pulse becomes low & feeble, the face pale, the skin cool, & the strength impaired; yet the circulation remains too rapid, & if a cicatrix has formed, it cannot resist the impetus, but yields, & the hem. is renewed. In this state *℞*. is forbidden by the state of the system, & *Digitalis* is one of our best resources. -

17th June 1861
Dear Sir
I have the honor to acknowledge the receipt of your letter of the 14th inst. in relation to the above named matter. I am sorry to hear that you have been unable to obtain the information you desired. I will endeavor to obtain the same for you as soon as possible. I am, Sir, very respectfully,
Yours obedient servant,
J. H. [Name]
[Address]

Lecture 19th. December 12th. 1844. 98.

I spoke in my last lecture of Digitalis in hemoptysis, and said that it ought not to be administered untill the force of arterial action had been diminished either by the hemorrhage, or by V.S. & even then I think it by no means equal to Ipecac, Sac. Lat. or Squill. But it is well for us to be possessed of a variety of remedies of the same properties, so that we may have recourse to one, when the others maybe forbidden by some peculiarity of constitution or other circumstance. Digitalis is also said to be efficacious in uterine hemorrhage, but here again V.S. must precede it, and I doubt whether it be adapted to this form of hemorrhage. I saw one case, in which the flow was most profuse during the operation of the medicine. The disease appears to require something to constrict the vessels, and we have many medicines better suited to this than Digitalis, which instead of constricting, increases the relaxation, and of course must be injurious. The periodical profuse discharges of females are almost always ~~true~~ hemorrhages and are instantly alarming, whereas genuine menorrhagia is not immediately so. Remedies may check the former, but do not restrain the latter, as it is a secretory action; thus in true menorrhagia little else is to be recommended during the flow than rest, anodynes, &c. and during the intervals, tonics &c.

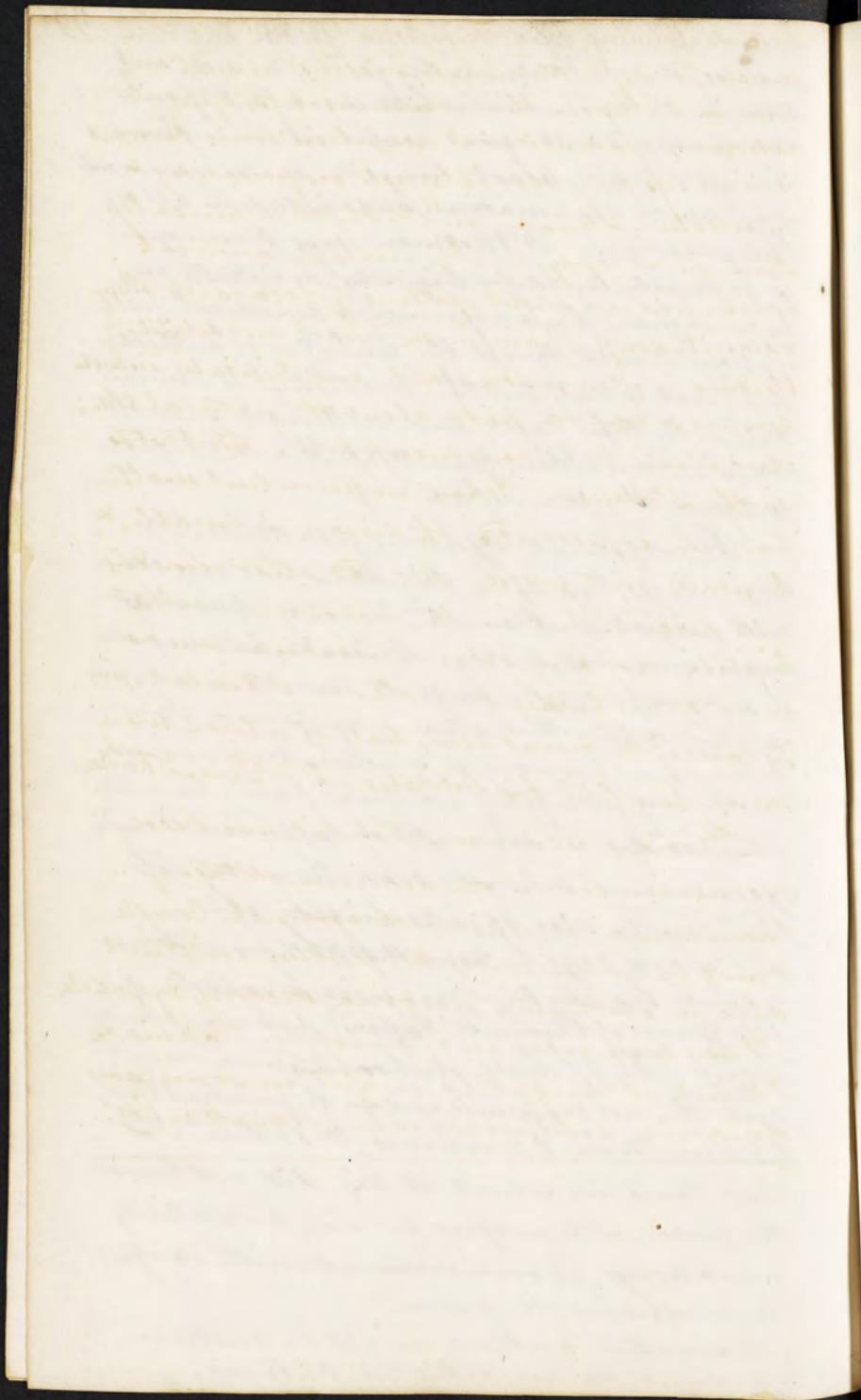
Besides hemorrhages, Digitalis has been applied to many other diseases, and even to some of the most inflammatory, as fevers &c. Thus D. Serrius seems to suppose it even

more than a complete substitute for ~~the~~ and recom- 99.
mends it in inflammatory fevers, in which he
tells us he has used it with success. Dr Currie
also speaks of it with equal confidence, in inflamma-
tion of the brain, heart, lungs &c. he also recommends
it in acute Rheumatism, and indeed in all the
Phlegmasia. Dr Hosman says Pneumonia
is as surely cured by Digitalis, as ~~intum~~ asc
by cirrhosis. By a reference to periodical publi-
cations I could swell the number of authorities
to a great extent, but the medicine is now laid
aside in these cases, and nothing is more cer-
tain in medicine, than that it is inadequate
to supply the place of it.

In Pectoral affections, particularly in
Phthisis pulmonalis, Digitalis has very valu-
able properties. Darwin, Ferriar, Drake all
recommend it highly. Dr Drake, who has used
it very extensively, says its success is very
considerable; that many confirmed cases
have been cured by it, & where death is inevi-
table, it prolongs life, lessens pain. He relates
15 cases of well delineated, of confirmed Phthisis,
9 of which were cured, one relieved, & 5 died.
Dr Fowler also speaks highly of it.

Dr Beddoes says, he hopes that Phthisis will be as
certainly cured by Digit, as agues are by bark.
Dr H. Jennings of Plymouth (England) had extraordinary
success - In 77 cases, of whom 24 were recent,
and the rest confirmed, and in the puerulent stage,
43 were cured, 22 relieved, & 10 died. In
those cases in which the Dig. did not lower
the pulse, it was of no service, & its utility
was always commensurate with its effect
in reducing the pulse.

Many other authors might be quoted in
favour of the use of Dig. in Phthisis.



Notwithstanding all these praises, Digitalis has lost much of its reputation, and indeed is almost out of use in Phthisis. This is running to the opposite extreme; no doubt it is useful in some cases, but it is no less true, that its effects are precarious & uncertain. Its value in Phthisis is much less than in Dropsy. - In irritable and weak habits, where a slight spitting of blood exists, attended with cough, pain in the breast, and debility, bleeding is often inadvisable, and Digitalis, in such doses as to keep the pulse about the natural standard, is said to be very successful. But not so in the 2^d stages. - When no purulent matter has been expectorated, the disease is curable, & Digitalis with proper diet, and other remedies will succeed. but in the last stages neither Digitalis nor any other medicine can do more than barely palliate. - I think I give 14 cases of the recent kind, half of which were much benefited by Digitalis. - D McLane - D Keir.

Besides Consumption, it has been recommended in the declining stage of Pneumonia; it relieves the obstinate Cough, & may be given with the Pectoral mixture. also in Asthma, Angina Pectoris, Dyspnoea. It has been used in Epilepsy, Psoriasis. I think it might be useful in some cases of mania, but preceded by V.S. & cathartics.

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Lithon triptics or Antilithics. Both names should be retained; for some medicines must exist, which are calculated to dissolve the Stone; and others to prevent or correct the tendency of the system to the formation of calculi; & to relieve the symptoms when present.

The manner in which Calculi are generated is not understood; all that we know of it, is that when a nucleus exists, stony concretions are deposited on it. - Nor do we know more of the diathesis on which Calculi depend; its connexion with Gout is very evident; indeed the urine of gouty people uniformly deposits a calculous sediment. - Thus the voluptuary, the debauchee, the studious and sedentary are liable to both these diseases.

It is however clear to my mind, that these scourges of human nature, reproaches of our art have their primary seat in the Stomach. Various substances enter into the formation of calculi - 1. Uric acid - 2 Phosphate lime. 3. Phosphate magnesia & ammonia - 4 oxalate of lime - 5. muriate of ammonia - 6. magnesia. 7. phosphate of iron. 8. Urea - 9. Silica (or Cystic acid) & animal mucus or adipocere. -

Calculi have been divided into 4 classes;
1. Uric. having for basis the uric acid, or the water.
2. Fusible. - composed of phosphate lime or phosph. of magnesia & ammonia -
3. Mucous - of which the oxalate of lime is the constituent.
4. Bone earth - - the basis of which is phosphate lime.

Experiments have shown the practicability of dissolving these Calculi, & that each species has its proper solvent. - Thus the Uric are soluble in a solution of Potash & Soda, so weak that it may be held in the mouth & swallowed with ease.

- (Dr. Physick sounded a boy & felt the stone as distinctly as he ever felt one. Dr. Wistar also felt, & an operation was agreed on, but it being summer, it was determined to defer it till the fall, & Dr. P. meanwhile ord. the patient alkaline water - The very first dose relieved the patient, and after continuing it sometime, all the symptoms vanished, & the patient remained perfectly well several years after, since which Dr. P. has not heard from him.

In another Case, Dr. P. was equally sure of feeling a stone; 6 months after the patient died of a fever, & on examination no stone was found in the bladder. In both these Cases the stone could not only be felt, but when struck with the sound, the noise could be distinctly heard. In this last, the stone was certainly dissolved, but in the 1st. it may have been dissolved, or encysted, as occurred in a case in Eng^d. - A Mrs. . . . pretended to have discovered a cure for the stone, & attracted so much notice, that a committee of Surgeons were appointed to enquire into it. A patient was given her, who was soon relieved, & the stone was supposed to be dissolved; but the patient dying soon after was examined, & the stone was found to have insinuated itself into a sac, formed by a kind of hernia of bladder. It was thus prevented from falling on the neck of the bladder, or giving ^{rise to} any uneasy symptoms. (E. B.)
(Calculus may be encysted in two ways; 1st. it may stop as it is passing thro' the two coats of the bladder at the =

The 2 & 4.th or the phosphates are dissolved in nitric or muriatic acid, so diluted as not to irritate the bladder. - The 3.^d or those having for basis the oxalate of lime are soluble in nitric acid or a solution of carbonate of potash or soda.

Gastric juice is the most powerful solvent of every species of Calculus; but whether we propose any article, which will dissolve them while in the bladder is yet doubtful. I am inclined to think such effects have been produced; Mr. Everard Home relates a case in which a Calculus was by some means dissolved & disappeared; & Dr. Puyrich has met with a similar instance. - I still endeavour to produce this solution by injections into the bladder must be extremely ambiguous, as we must first know the composition of the Calculus; thus we must proceed empirically, trying one after the other. -

That there are substances, which taken internally, may dissolve Calculi, I infer from these facts; 1.^o We have solvents for the stone when out of the body, & these may be given in sufficient quantity without prejudice to the system; & 2.^o Some of these lithontriptics reach the bladder unchanged, or at least without a material alteration. Nor is this inconsistent with the assertion I formerly made that no substance was taken into the circulation without being changed & assimilated; for when the substance arrives at the excretion, it is out of the sphere of vital ^{energy} action, it reappears in its former state, thro' the medium of a chemical decomposition. -

= entrance of the ureters; or 2^d. the interstices between the muscular fibres (which are arranged in a retiform manner) may gradual yield to the pressure of the stone during the violent efforts of the muscular fibres to overcome any obstruction to the passage of urine, whether from the stone, or from stricture of the urethra, and thus a complete Sac maybe formed, into which the stone will insinuate itself & for a time give no further trouble. D^r. Physick.)

Moreover, there is probably a direct communication between the stomach and bladder; thus nitre, turpentine, garlic &c will appear in the bladder 20 minutes after being taken into the stomach. Dr Darwin supposes this to be accomplished by a retrograde action of the absorbents; but this hypothesis is a very lame and imperfect explanation; for if they do take on this retrograde action, it is only the effect of disease -

Mr E. Home (London) has made some interesting experiments on this subject, which are related in the Lond. Philos. Transactions.

See Ecl. Repertory. Vol. 2 & 3. -

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LECTURE 21st December 18th 1814. 104

Of the medicines of this class, the first that will claim our attention is the Carbonic acid; tho' long used, its utility however was not well illustrated till the work of Dr Dobson appeared about 35 years ago; since which Dr Saunders & others have maintained its power of dissolving Calculi. Doctors Pearson, Sautkener & Percival by their experiments prove that Calculi are soluble in carbonic acid, in malt liquors &c. The next point was to ascertain that this med. could be carried from the stomach to the bladder so as to dissolve the Calculi there; this they very speedily prove; for the urine ^{after taking it for some time} precipitates lime from lime water, and was found to be capable of dissolving Calculi. — This was confirmed by the numerous experiments of Dr Priestley. — Pyrmont & Spa waters also dissolve them, & it is asserted that the same effect is produced by the urine of those who have drank these waters. —

The evidence of the beneficial effects of malt liquors is scarcely less irresistible. Cyprian says of 1400 patients, whom he cut for the stone, not one had been an habitual drinker of malt liquors. Sydenham is equally decided in their praise. — However I shall not insist on their solvent power of this or of any other medicine; our acquaintance with this subject is imperfect, but enough is known to warrant us in pursuing the subject; for allowing that we have no solvent as yet known, we certainly have many medicines, which arrest the growth of the calculus, & mitigate the symptoms, when it is present.

- (If the solution of Carb. pot. be taken alone, it cannot be
in doses of more than \mathfrak{zj} . & then should be enveloped
in mucilage) - if the acid be added before it is taken,
the acrimony is destroyed & \mathfrak{zj} may be taken - Dr. Ross

As to the use of carbonic acid in these cases, I know but little from my own experience; but as a palliative, it would be the highest degree of scepticism to doubt its efficacy. I have used the Seltzer water, but the aerated alkaline water is more commonly used; and when neither can be procured, a good substitute may be found in the effervescing draught. - A teaspoonfull of carbonate of potash may be dissolved in water, & lime juice or vinegar added; and during the effervescence, this is to be drunk; perhaps it would be better to swallow first the solution of carb. pot. & then the acid, so that the effervescence might take place in the stomach; this is to be repeated 5 or 6 times a day.

The doctrine of an acid being the origin of calculus has rendered the practice of giving alkalis very common; they were however at one time laid aside, but were revived about 30 years since. ^{carbonate potash.} From grs ℥v. to ℥xxx may be given in solution at a dose, & repeated morning & night. It produces great gastric distress, which may be diminished by mixing with it Mucilage of g. Arab. Still it cannot be long continued without producing vomiting &c. The common mode of using it is in solution supersaturated with carbonic acid, & obviously its bad effects on the stomach. Dr Beddoes directs ℥ij of carb. potash to be dissolved in a small quantity of water, & this to be impregnated with fixed air by Nooth's apparatus. of this ℥xii or ℥xxiv. may be taken daily.

As a palliative the soda is equal to potash; & is also given in watery solution saturated with carbonic acid. - It is also used in simple solution; ℥i to ℥vi water, & ℥i or ℥ij to be taken daily. - It may also be freed of

— (The milk sometimes disagrees with the stomach & mucio-
lose of firm Arabic may be substituted.

The milk should be new, & perfectly free from acidity,
otherwise the lime will be neutralized, & the effects of
the limewater lost. — To prevent this, Dr. Physick always
directs it to be taken in boiled milk; for if the slightest
degree of acid exists, the milk by boiling coagulates &
thus detects the acid. — During the use of the limewater,
the patient is to abstain entirely from acids.)
(E.B. from Dr. Physick) —

its water of crystallization and be made into pills; ℥ss or ℥i to be taken daily. — Both alkalis are given in the form of soap, the purer kinds, as the Castile being preferred. each pill may contain grs iij & 8 or 10 of them taken in the day.

Aqua Calcis has been much employed; I have frequently used it in Nephritis Calculosa, & mostly with great advantage. It is confessedly one of our best palliatives for the Stone; & in large quantities relieves entirely the symptoms for a time; thus DeHaen mentions an instance of a person who took 800 quarts in 6 months, & continued free from pain &c for 3 or 4 years, the 1st Calculus remained. — Not less than a pint ought to be taken daily; but in gravel I generally order a wineglassfull 4 or 5 times a day in milk. — Limewater is of great service in all cases, where there exists a gastric affection, Dyspepsia, acidity &c. It is eminently useful in all the Cachectic diseases. Also in Diarrhoea, in the last stages of Dysentery; In Leucorrhoea I do not know a more valuable remedy than this preparation; ℥ij of bark in a quart of limewater; let it stand for 2 or 3 days & strain it. of this a wineglassfull 4 or 5 times a day. — It is also used externally in Fleas, particularly tinea capitis; In Gleet & Leucorrhoea as an injection; & as a wash for ill conditioned ulcers, particularly fistulous ones. — Limewater is prepared by slaking ℔ss of lime in a close vessel & adding 3 or 4 quarts of water; this is to be shaken occasionally for 3 days, then filtered & bottled. Limewater is a valuable med. in checking vomiting.

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Mineral acids; both muriatic and nitric have 107.
acquired reputation as lithontriptics or solvents.
Lately Mr Copeland has made comparative trials
on the two, & gives the preference to the nitric.
Among his Cases, 2 certainly are related in which
a solution of the Stone must have taken place.
One by Muriatic acid, gr. XXX t.d. & the other by
nitrous acid gr. XXX t.d.; persevering a long time
in the use of them. The ^{sediment of the} urine was submitted
in both Cases to Chemical analysis, & was found
to contain the exact proportions of the Constituents
of Calculi. — During the use of these acids,
Opium is to be given occasionally to mitigate
the pain, and Costiveness is obviated by laxatives.
When the treatment produces gastric distress,
Spirit water will relieve it. — From all his
trials, Mr. Copeland was induced to give a
decided preference to the Nitric Acid.
(Dr Whistler mentioned that the Sulphuric acid has
been spoken highly of in Calculus.)

- (Orphysick thinks it a very inert & useless medicine,
 & has never experienced the least benefit from it in
 any disease whatever; tho' he has used it more or
 less for many years. - E.D.)

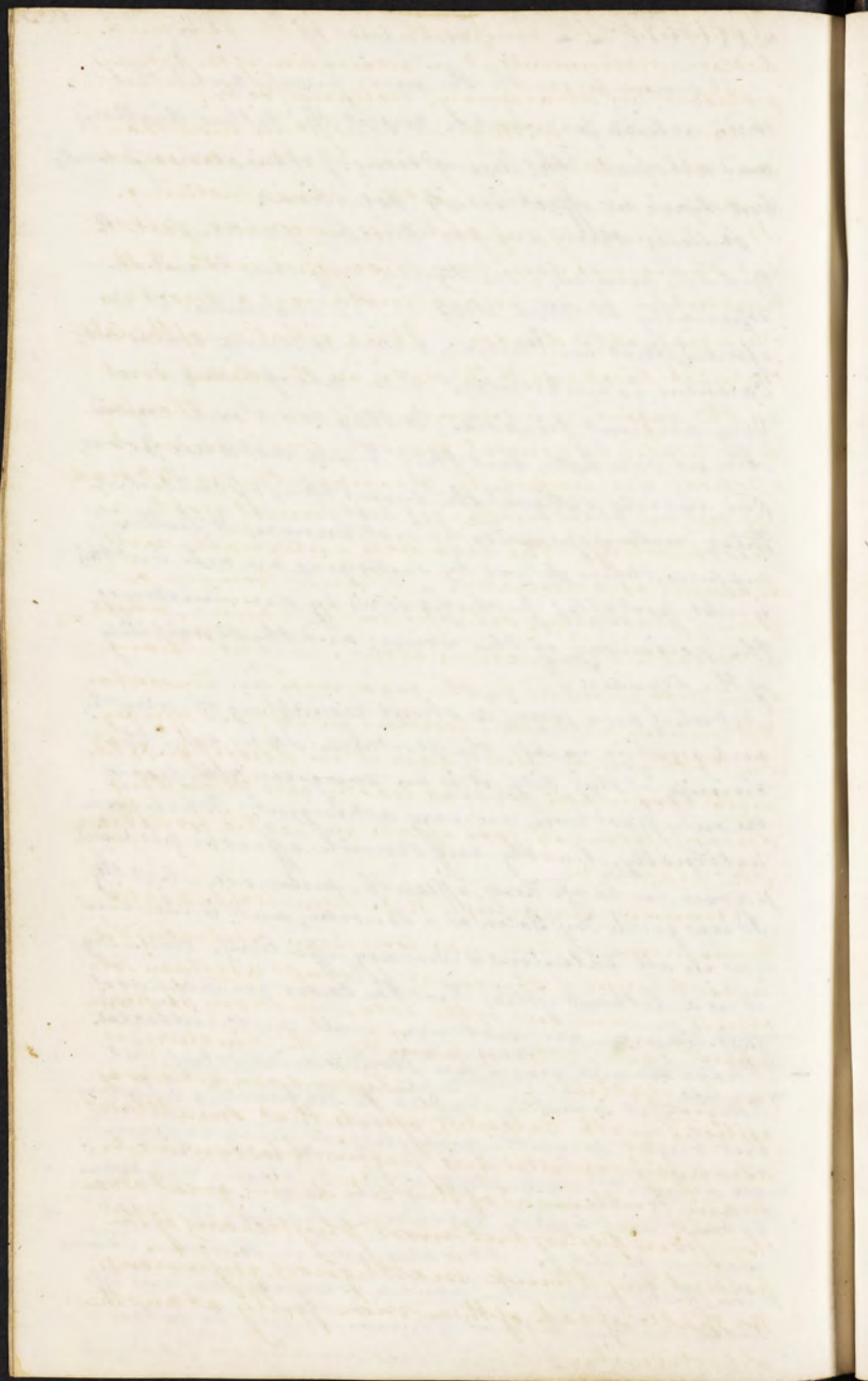
+ Dr Ferriar says he has always derived advantage from *ura uris* in
 nephrit. cruenta & never found it necessary to give more than gr. v. with
 Opii gr. ss. to quench the fire - the usual dose, he says, is nauseating & has this
 specific effect.
 He has found it very successful in cases of haematuria in
 delicate females, where he had reason to suppose the hemorrh. ^{in this}
 was from the kidneys. - ^{in this} it acts specifically on
 the kidneys - See Med. hist & Reflect. -

We now proceed to the more purely antilithic mids., which prevent or correct the lithic diathesis, and allviate the symptoms of stone, when present; but have no effect in its solution.

Among these are the Bitters, particularly the Gentian, quassia, Centaury, Impatiens & more especially the *Mva ursi* - Tea also indeed it is asserted, that in China, where so much tea is used, Calculus is unknown. The use of bitters is a very ancient practice, & they were once considered as solvents, but they have not this power, and merely relieve the symptoms of calculus. Their *modus operandi* is not known; I Cullen supposes them to act by destroying an acid, but this is not probable; perhaps it is by diminishing the acrimony of the urine, and the sensibility of the bladder.

Arbutus uva ursi. a shrub resembling the myrtle, and growing in all the Northern States, & in the vicinity of this city, it is an evergreen & the leaves, the only part used, are very astringent. When given internally, hardly any sensible effect is produced, & even in large doses, affects the pulse very slightly. It was given by Galen as a diuretic, and is now much used in all calculous & urinary affections. Some say it is a lithontriptic, but the cases in support of this opinion, are not very well authenticated.

- I have seen it given in Stone & with relief, but I think it is better adapted to Nephritis; & having but slight sensible properties, it may be given in almost every state of the System, in every form of nephritic disease. Dose grs XX. t. d. & increase to ℥i. t. d. It is also used in Suppuration & Decretion, but I prefer the powder as more certain and less disagreeable. A grain of opium should be taken every night, as Serriar recommends, in painful



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nephritis, while under the use of the ura uris.
DeHaen recommends it in ulceration of the kidneys
or bladder, in stranguary, ischuria &c.

I have used it with great benefit in more than
one case of Catarrhus vesicæ. — It is also said to
be useful in Diabetes; of this I know nothing.
It is strenuously supported in Leucorrhœa, gleet &c;
but I have not been very successful with it. The
Leucorrhœa is in many instances a most un-
manageable disease. It is a vitiation of the Cata-
menial discharge, & its seat is in the uterus & not
in the vagina as is generally supposed; it is therefore
to be treated by general & not by local means. In-
jections are useful by cleansing the parts & wash-
ing out an acrid discharge; but must not be re-
lied on solely. — The ura uris internally will
be useful as a tonic &c. — There is however a
form of fluor albus, situated in the vagina, which
is curable by injections alone. — Tho' I have
been disappointed by the ura uris in Leucorrhœa
yet many (as Dr Baillon) contend for its great efficacy.
In Phthisis Dr (Gowd) gave it in doses of grs XX. t. d.
with advantage; he was lead to use it in this
disease, from its good effects in hectic from dis-
ease of the bladder &c.

Humulus Lupulus or Hop. As a lithontriptic
the infusion of Hop has long been celebrated; & it
is said to be one of the most prompt & certain sol-
vents of Stone out of the body. A strong infusion,
a pint daily, relieves pain &c. — The Tincture is
far less effectual. — Sydenham, who was
afflicted with Calculus, asserts that small beer
always prevented his passing bloody urine &c.
many gentlemen of this City derive great advan-
tage from Porter; but most physicians of the
present day think mallicignous injurious.
We shall speak of them more fully at another
opportunity.

- *Allium porrum* -

110.

Daucus Carota or wild Carrot. In many of the urinary diseases, the infusion of the root or seeds of this plant is one of our best remedies. The wild is more powerful, yet the cultivated is diuretic; they are the same species, varied only by cultivation. The root is preferable, & a pint of the infusion is to be taken daily: by perseverance in this plan, complete Cures have been effected.

Alliaceæ - Of these the *Allium sativum* or garlic is the most powerful. It operates actively on the urinary organs & is a highly stimulating diuretic; as we should conclude, from its reaching the kidneys unchanged. - It is said to be very useful in Dropsies. It was formerly used as a lithontriptic, but has lost its reputation as such. It has however of late been again introduced, & if we can credit the accounts given of it, it is a very valuable medicine. It is taken either in substance, or in expressed juice. a half a garlic at a dose, or half troy of its expressed juice. - The leaf is equally efficacious & is used in the same manner.

Wagneria has been very lately introduced as an antilithic, & we owe it to Mr. Brand of London. (Dr Chapman read 4 cases, published by Mr. B. in Lond. Philos. Transact., which show the superiority of this med. over the Soda or potash; the Calculi were of the uric kind. - he supposes that it acts by neutralizing the acid in the Stomach, & thus diminishing the formation of uric acid in the kidneys.)

- Or if sweating can be induced, it is only partial, & proves rather injurious than beneficial. -

LECTURE 23rd December 19th 1814.

Diaphoretics. This name is in common language restricted to those agents, which increase the insensible perspiration, & Sudorifics to those which increase the sensible: but no difference exists between them, except in degree of power, & the mode of administration; I shall therefore comprehend all under the name of Diaph.^s

Diaphoresis, being merely an increase of a natural action, may be produced either by direct stimulus to the exhalents, or by increasing the tone or action of the arterial action.

Diaphoresis however is not a necessary consequence of increased arterial action, for a constriction of the exhalents may exist, which must be conquered.

These med. are therefore divided into three classes: viz. 1. those which increase arterial action, as opium, vol. alkali &c. 2.^o those which directly stimulate the exhalents, as warmth applied to the skin; & 3.^o those which produce relaxation, as antimonials &c. -

However different these med. maybe, yet they all unite in reducing morbid action; they diminish arterial action 1.^o by evacuation of serum; 2.^o by abstracting the blood from its ordinary route of circulation, & 3.^o by overconstraining constriction of the surface.

As it is of importance in many diseases to produce diaphoresis, some rules may be properly laid down, for the exhibition of them viz. 1.^o Confinement to bed is essential.

2.^o The pulse & temperature of the skin are to be carefully watched. If the pulse be high - active or the heat very high, diaphoresis cannot be induced, untill they have been lowered by &c. which should not be omitted (unless contraindicated).

3^o Diluent drinks; unless the stomach be very irritable and after the exhibition of antimonials; for in these cases they might induce vomiting. The temperature of the drinks must depend on that of the surface; if the skin be very hot, cold drinks are preferable.

4^o The bed linen & shirt &c should be frequently changed; for filth prevents perspiration &c. -

5^o Guard against a sudden suppression of the perspiration; this is of the utmost importance.

6^o In the low stages of disease, avoid purging during the administration of diaphoretics; for it might suppress the perspiration by a revulsive action & by rendering necessary a frequent exposure to cold.

7^o As diuresis and diaphoresis are in an inverse ratio to each other; we must avoid during the use of diaph^o, those circumstances, which increase the secretion of the kidneys. -

8^o When long continued perspiration is required, as in Chronic Rheumatism, flannel should be substituted for linen next the skin; without this, it will be impossible to keep up an uniform & constant perspiration. The old practitioners used to employ flannel in all cases, but it would be very injurious in all acutest or febrile affections; in these a frequent change of clean linen is highly comfortable & refreshing.

Diaphoretics judiciously applied are a very important class; they determine to the surface, remove congestion, obviate constriction of the minute vessels, increase absorption, promote the cuticular discharge, & diminish morbidly increased action by lessening the quantity of the circulating fluids. As they are so powerful, they ought not to be wantonly trifled with, & the popular prejudice in their favour in every disease, is in some cases highly injurious; they operate too often as the foundation of obstinate diseases.

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In Remittent, & intermittent. these fevers 113.
naturally terminate by a sudoresis, & hence
these remedies are indicated by Nature to put
an end to the paroxysm. - They are also used
to prevent the recurrence of the fit, with con-
siderable success; When judiciously applied, they
conduct the paroxysm to a close; they prevent
its recurrence, & thus break the train of cata-
strophic motions on which the disease depends.

As a preventive of the approaching paroxysm, the
stimulating diaphoretics are preferable; but to
conduct it to a crisis, the relaxing ones, as the
antimonial, are to be used. (with cooling ones)

In Continued Fevers, it is equally necessary
to exhibit diaphoretics; - It was once the practice
to give the most stimulating ones even in
the most inflammatory fevers, confining the
patient in a hot room & preventing the ingress
of fresh air; with Cordials &c. this only added
fuel to the fire; the heat under this treatment
becomes insupportable, delirium & a great
determination to the brain, marked by redness
of the face, inflamed & turgid eyes, beating of the
Carotids, &c. - Sometimes there is a determi-
nation to the lungs, & coughing &c. are the consequence;
or to the abdominal viscera; fullness of the liver
and spleen, pain in the abdomen, nausea & vo-
miting &c. - In this state sometimes a pro-
fuse sweat will break out, but it brings no
relief & does not diminish arterial action.

But when properly used, they are most impor-
tant medicine in these fevers; but not until
action has been subdued by H.S. purges &c. then
they come in; but the Cordial or alexipharmic
diaph^{ts} are even now inadvisable, & we must
prefer the relaxing ones, keeping up at the
same time a free ventilation.

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We concluded the last lecture by saying that in inflammatory fevers, B.S. should precede diaphoretics, & the milder ones should be preferred.

They are equally successful in Typhus, & may be used in an earlier stage than in inflamⁿ. but even in T. caution is necessary, & in both the T. mitior & gravior, they should be preceded by moderate purging, & the affusion of cold water. but I have seen very little of these fevers in this country, as they appeared in Europe. I am told they formerly prevailed here, but disappeared on the arrival of our epidemic Y. f. which has been succeeded by a Typhus of a different nature from that of Europe. Of this epidemic which has prevailed throughout our country for 3 or 4 years, & has twice visited this city, I shall now give some account; not a minute one, but a mere summary drawn chiefly from my own observations.

This truly proteiform disease assumed almost every shape, but generally commenced with an unprecedented prostration of strength, the vital powers being apparently exhausted; alternate rigors & heat; the skin soon became dry and pale, or mottled, as if it had been exposed to cold; the features contracted, the eyes wild & glassy, & the countenance expressive of the utmost anxiety. The pulse was at first slow, and apparently depressed, but in a few hours became quick & vibrating, like the chords ^{of a musical instrument}, & ultimately sunk so as hardly to be perceptible. Affections of the head came on, various hallucinations, or complete delirium, ending in a Stupor or Coma.

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In other cases the disease was ushered in with 115.
symptoms of pneumonic inflammation, great
pain and oppression at the chest, laborious respiration &c.
from the pulse, which is at first full, strong & volu-
-minous, we should conclude the disease to be
highly inflammatory. This is its most insi-
-dious form of attack.

In others, there is apparently no local determi-
-nation; the first symptom being an extreme
prostration; no chills or fever succeed, but the
muscular power is lost; pulse, even at the
first attack, irregular & quick, 140 in a minute.
Soon the head becomes affected, & the patient
sinks into a state of coma and insensibility.
These are the most aggravated forms under
which it has appeared in this City. The cases
which have occurred lately have assumed
a different guise, & have been much milder.
They are all of the pneumonic kind; generally
commencing with chill and fever, impeded
respiration &c. often gastric distress, vomiting
of bile, even so much as to prevent the admini-
-stration of medicines; the pulse full, soft &
quick, resembling that of the bilious pleurisy.
A physician not aware of the nature of the
epidemic, would bleed & purge - but in a
day or two, it becomes a well marked Typhus;
the strength rapidly declines, mind becomes
distracted, or coma ensues. - The tongue & fauces
are now covered with an incrustation of a
dark brown colour, & dry & hard to the touch; the
tongue however in some cases remained
clean. - As the disease advances it becomes
the true Typhus gravior. Besides the above
symptoms, the skin is parched & hot, & in
the late stages dry & cold, & almost insensibly
stimulants not producing the slightest irritation
on the surface - growing worse for 10 or 12 hours, he dies.

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In several instances the attack commenced by 110.
a determination to the head - without any oppression at the breast, or difficulty of respiration, very sudden pains appear, which, after shifting about for an hour, then fix themselves in the head. Giddiness, languor of mind & body succeed - the fever soon comes on, the skin becomes dry, the pulse feeble & quick; even at this early stage the tongue denotes the Typhus state; an hour after the attack, it is covered with a brown crust, which soon becomes hard. - In a few hours the symptoms are all aggravated, vertigo, throbbing, stricture across the forehead & eyes, vigilance not to be subdued, & at the same time a lethargy. - Delirium in various degrees from mere incoherence of ideas, to the constant utterance of the most violent expressions. If neither delirium nor Coma exist, extreme dejection, constant sighing, imagination uncontrolable & confusing up the most distressing group of phantasms, &c. -

What then is this disease? I am not prepared to answer at least in a satisfactory manner; but of this you may be assured, that it is in no stage attended with active inflammation; it is a fever of a Typhus nature, but not such as have been described by authors. On dissection active inflammation appears to have pervaded the 3 cavities, but it is not a genuine inflammation; the parts are livid, & partial erosions are formed, as if gangrene had taken place. - In the brain are found extravasations of dark blood, or effusions of perverted lymph resembling pus. - after blisters or sinapisms, the surface exhibits similar appearances. We can then have but little hesitation in declaring it to be a Typhus, with inflammation of the Erysipelatous kind. hence depleting is absolutely forbidden.

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Two plans of treatment have been pursued; one by 117.
stimuli, and the other by diaphoretic; I am decis-
ively in favour of the latter, & all the physicians
of this city recognize the good effects of diaphoretic
in this disease, if used in the early stages.

An Emetic may be given in the commencement,
particularly if pneumonic symptoms attend; a
very gentle laxative may follow; & then the most
active means of producing diaphoresis are to be
immediately adopted & vigorously pursued;
and the diaphoresis to be continued untill the
violent symptoms abate. - Nothing has answered
so well in my practice as the Do. powder, fol-
lowed after some time by strong wine whey, &
hot fomentations to the extremities. Where
sweating is early produced, the cure is almost
certain. For topical congestion, blisters are
indispensable & ought to be used without delay;
they should be large enough to cover the whole
pained surface. - In the advanced stage
incitants are to be combined with the diapho-
retics; the volat. alkali is an "ipse agmen";
I had ^{said} almost the "Unicum remedium". 5 or 10
grs every half hour with a plentiful use of
madiera wine &c. - If the patient be rapidly
sinking, vesications are to be made, but in this
stage ordinary blisters have no effect; I have
used the Decoct. of Cantharides & Sp. Serepint. first
introduced by Doct. Hartesthorpe of this City. -

Such is a brief outline of this desolating
disease, which in its two visits to this City
has deprived us of ^{the services of} some of our most worthy &
careful citizens &c &c &c - D Rush, D Physick &c

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There is another species or form of Typhus, not described by Authors, which arises from long exposure to cold, and affords a decided instance of the sedative power of cold, long continued. Cases of this kind are often brought to our almshouse in the winter, in a state of torpor, insensibility, suppression of the vital powers, loss of speech, the pulse imperceptible &c resembling very much the state of hibernation in the cold blooded animals. This disease calls for stimuli, but these must be graduated according to the remaining susceptibility of the system. — The vital powers are sometimes restored by the warm bath, or if this cannot be procured, by dry heat, with the internal use of warm Cordials. If it is suffered to go on, or will not yield to these remedies, a partial reaction takes place, & the disease assumes the form of the worst Cases of Typhus gravior; the tongue becoming dark & coated; the pulse quick & small; low delirium, & a haggard countenance, glassiness of the eyes & generally a very contracted pupil. The patient continues in this situation with little or no deviation for 7 or 8 weeks & then recovers, by the continued use of vol. alk, Capsicum &c — As soon as the vital powers return, the stimulating Diaphoretics may be used with great advantage — On dissection of bodies, dead of this disease, the brain & other ^{viscera} ~~parts~~ are found to have been inflamed, but very slightly so, & the inflammation was apparently more of an Erysipelatous kind, than of an active or phlegmonous kind.

As connected with these fevers, I shall now make
a few remarks on the use of diaphoretics in fevers
supposed to originate in contagion, as Amplex &c.
Amongst the humoral pathologists, it was sup-
posed that the particles of virus, which kept up
the disease, could be eliminated through the
pores of the skin & hence their first remedies
were diaphoretics. This affords us an instance
of false theory leading to correct practice.
They are very serviceable in these diseases, but have
no peculiar or specific action, & their use is to
be governed only by the state of the system.

In the exanthemata, it has always been
a favourite practice to use diaphoretics, but
they are often attended with so much heat
& action, that not even the mildest diaph^{es}
are safe, until inflamⁿ has been reduced
by let^{ts}, Cold affusion &c as in Scarlatina.
In most of the profluvia, diaphoretics are
our best remedies. Every one knows their
utility in Catarrhal affections, in Coughs,
in Diarrhea &c. In all these diseases,
flannel is of great importance.

More than half a Century ago, D. Keiske
maintained the superiority of diaph^{es} over
all other medicines in Dysentery - Oplate
Richter has supposed it to be a Rheumatic
or Catarrhal affection of the intestines, & hence
that diaphoretics were the best remedies. -
Without maintaining his theory, I almost en-
tirely approve of this practice.

It is my opinion that we have been in the
habit of purging too much in diseases of the
intestines and particularly in Dysentery.

- the *Rubus frivialis* Lin.
the running black berry or
dewberry.

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I think the acrid matter lodged in the intestines is owing to a previous irritation, producing an increased discharge from the mucous follicles, the liver &c. - Hence after evacuating the contents of the intestines by a moderate laxative, I use medicines calculated to allay this irritation & to relax the vessels of the surface. *Opii grs. 5* & *Specac. grs. ʒi. ʒss. h.* When the irritation is very great, I sometimes use anodyne injections; 4 or 5 ~~grs~~ ^{ʒss} of Laud. with starch &c. in the 24 hours. -

In Cholera morbus & Cholera infantum (the Summer Distemper), I have followed the same plan of treatment. The latter, one of the opprobria of our art, owes much of its mortality to the prosterous mode of treatment to which it has been subjected; what else could be expected, but that the tender infant should sink under a course of violent purging continued for weeks? Entertaining the same view of it, as of Dysentery, I begin the treatment by a moderate evacuation, & then allay irritation by opium &c. - I have found a decoction of the root of the dew-berry one of the most efficacious medicines in this disease, as well as in the diarrhoea of old people. a handful of the root is boiled in a pint of water, & allowed to simmer - for a child, a table spoon every two hours; it is a pleasant medicine & soon checks the diarrhoea. (More of it in the Astringents.) In Chronic Dysentery Diaph. ⁹ also used. When the acute disease is removed, a considerable tenderness remains; pain & griping; feces are still fetid; but little strength & no appetite; what is eaten is not digested; the skin is dry & parched, the face is sallow &c. the blood is evidently confined to the larger vessels. I have seen several cases of this kind, which have resisted

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tonics & have yielded to Dover's powder, assisted by other means of keeping up perspiration. - Same may be said of Chronic Diarrhea, & in protracted Cholera &c. - Then often depend on disease of the liver or some other of the Chylipoietic viscera, & Calomel is indicated - Small doses as grs. may be added to each dose of the Dov. powder. - In Conclusion I will remark that the action of the alimentary Canal being in an inverted ratio with that of the skin, diaphoretics must be useful in almost all diseases of the viscera, hence in the cure of these affections, the great utility of blisters, flannel &c. -

In the Phlegmasia the skin is always hot and dry, & diaphoresis is desirable; but as the heat is often very high, & the action great, such diaphoretics as reduce these are to be chosen. Cold is often the best of these, but in some cases is inadvisable; thus it would be often injurious in Rheumatism. In the acute Rheumatism, the mild relaxing diaph. are to be used - Sometimes Dov. powder; or in very obstinate cases, opium, Calomel & Spica; or in lieu of opium, Cicuta, or henbane may be substituted - but in some cases there are spontaneous sweats, which only aggravate the disease, which would also be the effect of artificial ones; in these, purging &c. must precede diaphoretics. -

In the Chronic state we must lay aside the relaxing diaph. & have recourse to stimulating ones, as the Vol. alkali, Sassa. - nitra, Polyf. Tenejo, Guaiacum, mezereon & more especially to Savine.

In Gout much difference of opinion exists

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with regard to the use of diaphoretics; The advocacy 122
of the humoral pathology used them as the prime
-cipal medicines for gout; but I consider them
as mere auxiliaries, & next in utility to pur-
gatives. Nature indeed points out these two
modes of cure, by the spontaneous termination
of a fit of gout by a diarrhoea, or sweat. —

Diaphoretics are also used with success
in Diabetes, & Cases are related, cured by them alone.

Some refer this disease to the secretory organs of
urine; while others refer it to a vitiated state of
the assimilating organs. This last is not a
modern theory, but was adopted by Dr Cullen.

My own opinion is decidedly the latter, for the fol-
-lowing reasons; 1°. Diabetes is always preceded
by a gastric affection, & occurs particularly in the
intermperata and debauches. 2°. These gastric affec-
-tions continue in a great degree during the whole
course of the disease; 3°. Animal food, which
gives vigour to the stomach, is the best remedy
for the disease. 4°. Dissection has detected no mor-
-bid appearances in the kidneys &c, which cannot
be referred to a symptomatic affection. 5°. On in-
-spection, disorders of the stomach, liver & other
-lymphoietic viscera are discovered. Thus Dr Mead
contended that it was a disease of the biliary system.

Of this disease there are two forms, the
Diabetes mellitus & D. insipidus. The different,
they require the same remedies, accommodated
only to the state of the system. — The use of diaph.
might be anticipated, from their diminishing
the quantity of urine; the state of the skin also
indicates them; it is always singularly dry;
parched & heated, or cold & scaly. The best diaph.
in this disease are the antimonials, & the Dover
powder, which last has been used with very rema-
-table advantage. —

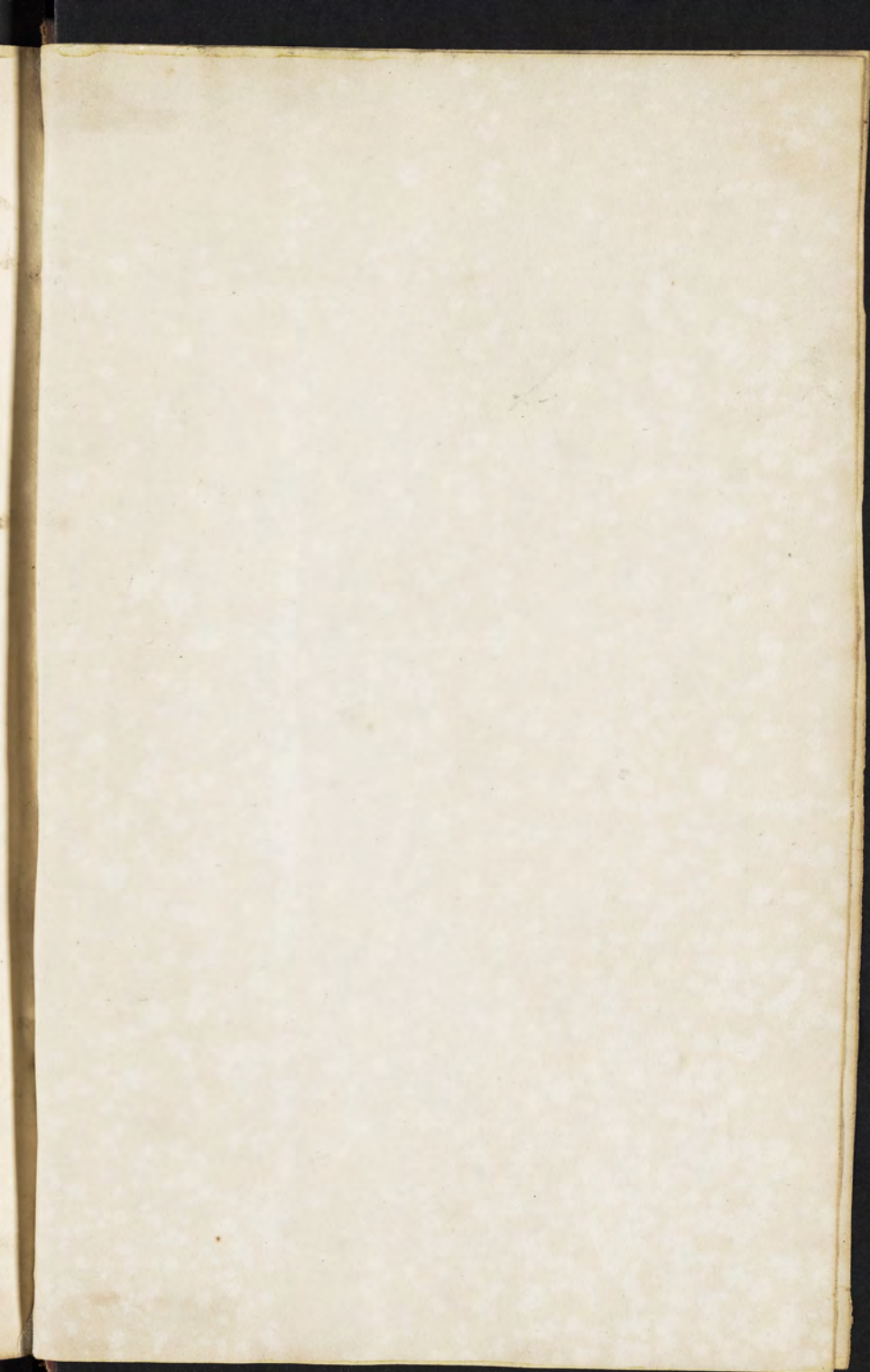
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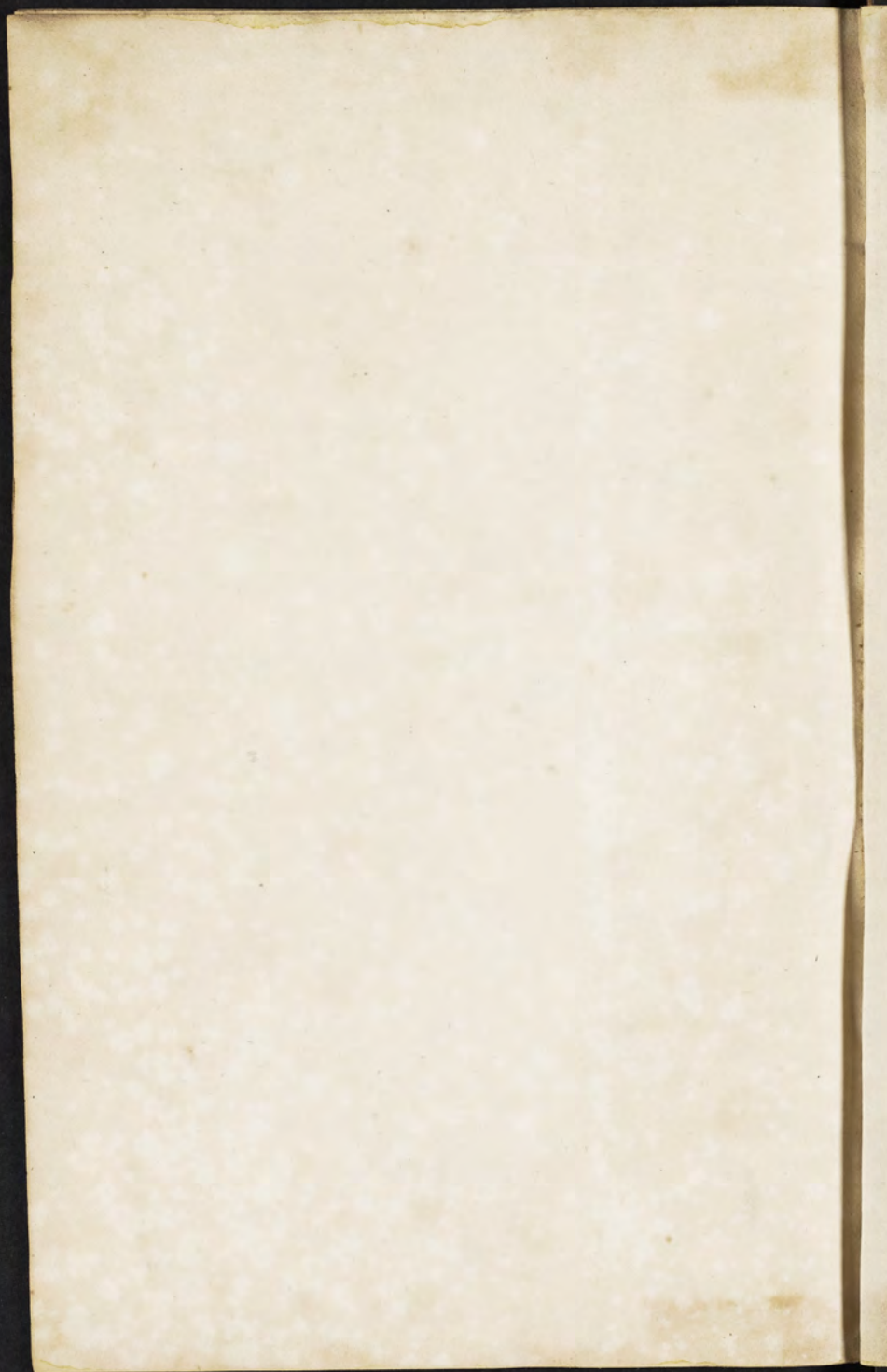
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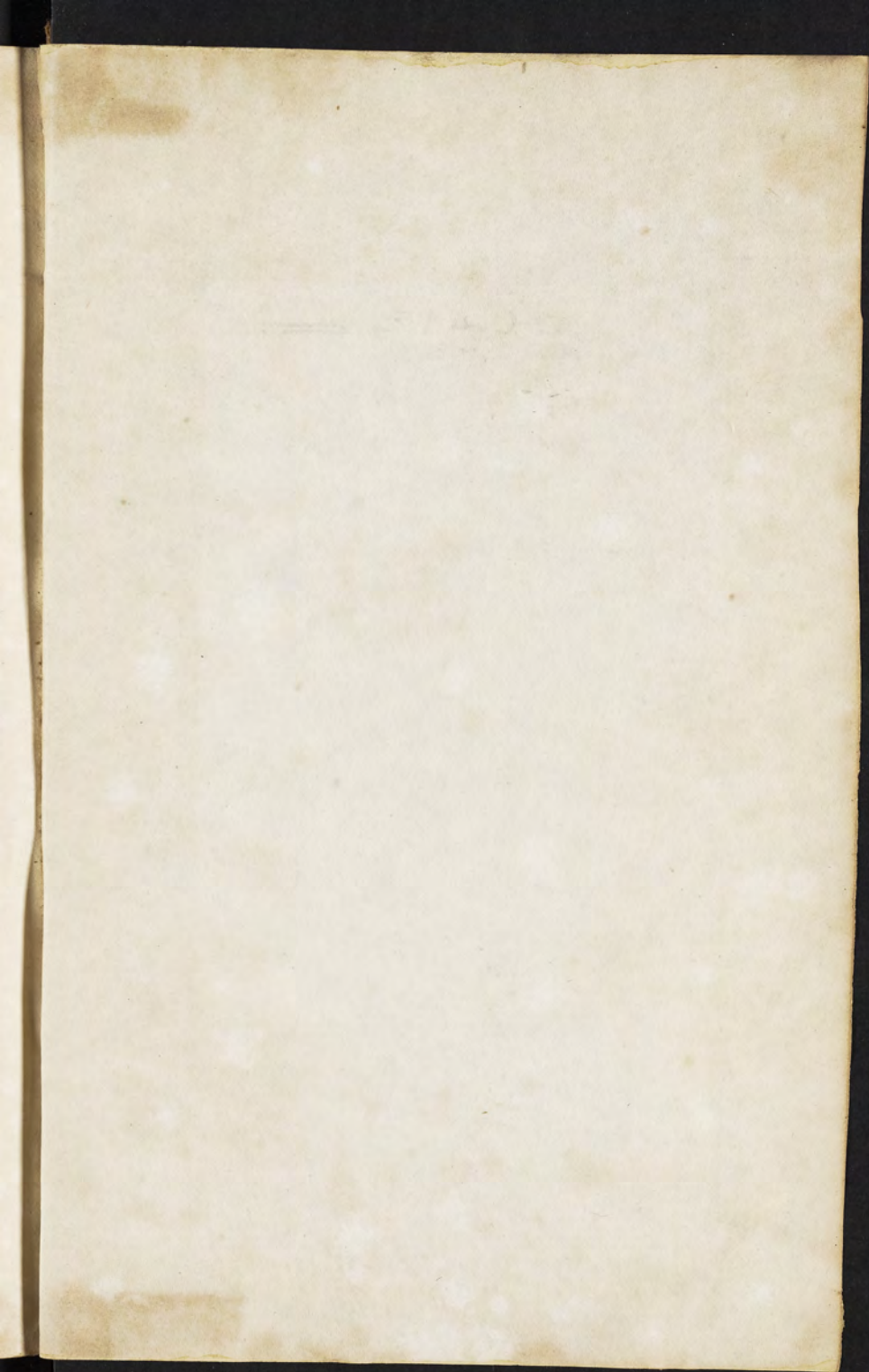
In Dropsies. At one time it was usual to ^{125.}
treat dropsies by sweating alone; the practice
is now renounced on the Continent of Europe.
The Cases in which diaph.^s are most indicated,
are dropsies, subsequent to intermitt fevers &c
from visceral obstructions; these Cases are
attended with a small tense pulse somewhat
corded, a dry skin &c. — Diaph.^s by their Cen-
trifugal power, remove obstructions & restore
the equilibrium of Circulation between the Sur-
face & the viscera. —

Many other Diseases might be here
enumerated, in which this Class of
medicines have been found useful, but
as they are less indicated in them, we
shall not stop to consider them, but proceed
to the individual diaph.^s. —

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Class 10a No 26

Presented by
Mr. Hugh Lenox Hodge

